

Result No.	Score	Query #		Length	DB	ID	Description
		Match					
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2	587	100.0	111	9	US-09-978-295A-370		Sequence 370, App
3	587	100.0	111	9	US-09-978-697-370		Sequence 370, App
4	587	100.0	111	9	US-09-978-192A-370		Sequence 370, App
5	587	100.0	111	9	US-09-993-832A-370		Sequence 370, App
6	587	100.0	111	10	US-09-978-189-370		Sequence 370, App
7	587	100.0	111	10	US-09-978-608A-370		Sequence 370, App
8	587	100.0	111	10	US-09-978-585A-370		Sequence 370, App
9	587	100.0	111	10	US-09-978-191A-370		Sequence 370, App
10	587	100.0	111	10	US-09-978-403A-370		Sequence 370, App
11	587	100.0	111	10	US-09-978-564A-370		Sequence 370, App



; PRIOR APPLICATION NUMBER: 60/079920  
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 ; PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 587; DB 9; Length 111;  
 Best Local Similarity 100.0%; Pred. No. 1.4e-55;  
 Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MSLPPRAPPVSMRLAAALLLLALYARVDGSKCCKSGPKIRYSDVKLEMPKY 60  
 Db 1 MSLPPRAPPVSMRLAAALLLLALYARVDGSKCCKSGPKIRYSDVKLEMPKY 60  
 Qy 61 PHCEKNVITTSVSRVGOEHLHPKLOSTKEFIKWYNWNEKRRVYEE 111  
 Db 61 PHCEKNVITTSVSRVGOEHLHPKLOSTKEFIKWYNWNEKRRVYEE 111

RESULT 3  
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 ; Sequence 370, Application US/09978697  
 ; Patent No. US20020169284A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi  
 ; APPLICANT: Baker Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan  
 ; APPLICANT: Ferrara, Napoleon

APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth J.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Kuo, Sophia S.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James;  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Shelton, David L.  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2630P1C27  
CURRENT FILING DATE: 2001-10-16  
PRIOR APPLICATION NUMBER: US/09/978,697  
PRIOR FILING DATE: 2001-07-30  
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## RESULT 4

US-09-978-192A-370  
; Sequence 370, Application US/09978192A  
; Patent No. US20020177553A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnovers, Luc  
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;; APPLICANT: Stewart, Timothy A.  
;; APPLICANT: Tumas, Daniel  
;; APPLICANT: Williams, P. Mickey  
;; APPLICANT: Wood, William I.  
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; FILE REFERENCE: P2630P1C9  
;; CURRENT APPLICATION NUMBER: US/09/978,192A  
;; CURRENT FILING DATE: 2001-10-15  
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; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
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 ; APPLICANT: Paoni, Nicholas F.  
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 ; APPLICANT: Shelton, David L.  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; FILE REFERENCE: P2630PIC63  
 ; CURRENT APPLICATION NUMBER: US/09/999,832A  
 ; CURRENT FILING DATE: 2001-10-24  
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 ; PRIOR APPLICATION NUMBER: 60/083558  
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 ; PRIOR APPLICATION NUMBER: 60/083559  
 ; PRIOR FILING DATE: 1998-04-29  
 ; PRIOR APPLICATION NUMBER: 60/083500  
 ; PRIOR FILING DATE: 1998-04-29  
 ; PRIOR APPLICATION NUMBER: 60/083742  
 ; PRIOR FILING DATE: 1998-04-30  
 ; PRIOR APPLICATION NUMBER: 60/084366  
 ; PRIOR FILING DATE: 1998-05-05

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; PRIOR APPLICATION NUMBER: 60/084414
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084441
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084637
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084639
; PRIOR FILING DATE: 1998-05-07
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; PRIOR FILING DATE: 1998-05-07
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; PRIOR FILING DATE: 1998-05-07
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; PRIOR APPLICATION NUMBER: 60/084643
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/085339
; PRIOR FILING DATE: 1998-05-13
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; PRIOR APPLICATION NUMBER: 60/085323
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085689
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697
; PRIOR FILING DATE: 1998-05-15

Query Match 100.0%; Score 587; DB 9; Length 111;
Best Local Similarity 100.0%; Pred. No. 1.4e-55;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MSLPRAPVSMRLAAALLLLALYTARVDGSKCKSRGPKIRYSDVKLEMPKY 60
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Db 1 MSLPRAPVSMRLAAALLLLALYTARVDGSKCKSRGPKIRYSDVKLEMPKY 60
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Qy 61 PHCEKQVITTSVSRVSGQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111
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Db 61 PHCEKQVITTSVSRVSGQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111
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RESULT 6
US-09-978-189-370
; Sequence 370, Application US/09978189
; Publication No. US20030004102A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Borstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: F2630PIC7
; CURRENT APPLICATION NUMBER: US/09/978,189
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
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; PRIOR APPLICATION NUMBER: 60/064249
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; PRIOR APPLICATION NUMBER: 60/066364
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; PRIOR APPLICATION NUMBER: 60/077450
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; PRIOR FILING DATE: 1998-03-31
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; PRIOR APPLICATION NUMBER: 60/083500  
; PRIOR FILING DATE: 1998-04-29  
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; PRIOR FILING DATE: 1998-04-30  
; PRIOR APPLICATION NUMBER: 60/084366  
; PRIOR FILING DATE: 1998-05-05  
; PRIOR APPLICATION NUMBER: 60/084414  
; PRIOR FILING DATE: 1998-05-06  
; PRIOR APPLICATION NUMBER: 60/084441

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; PRIOR FILING DATE: 1998-05-06  
; PRIOR APPLICATION NUMBER: 60/084637  
; PRIOR FILING DATE: 1998-05-07  
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; PRIOR FILING DATE: 1998-05-07  
; PRIOR APPLICATION NUMBER: 60/084598  
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; PRIOR FILING DATE: 1998-05-15  
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; PRIOR FILING DATE: 1998-05-15  
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; PRIOR FILING DATE: 1998-05-15  
; PRIOR APPLICATION NUMBER: 60/085580  
; PRIOR FILING DATE: 1998-05-15  
; PRIOR APPLICATION NUMBER: 60/085573  
; PRIOR FILING DATE: 1998-05-15  
; PRIOR APPLICATION NUMBER: 60/085704  
; PRIOR FILING DATE: 1998-05-15  
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 587; DB 10; Length 111;  
Best Local Similarity 100.0%; Pred. No. 1.4e-55;  
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MSLPRRAPPVSMRLAAALLLLLLLYTARVDSKCKSRKGPRIYSDVKLEMPKY 60  
Db 1 MSLPRRAPPVSMRLAAALLLLLLLYTARVDSKCKSRKGPRIYSDVKLEMPKY 60  
Qy 61 PHCEKMWIITKSVSRVSGEHLHPKLOSTKRFIKWYNANNEKRVYEE 111  
Db 61 PHCEKMWIITKSVSRVSGEHLHPKLOSTKRFIKWYNANNEKRVYEE 111

RESULT 7

US-09-978-608A-370  
; Sequence 370, Application US/09978608A  
; Publication No. US20030045462A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerriksen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kijavin, Ivar J.  
; APPLICANT: Kuo, Sophia S.

```
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C22
; CURRENT APPLICATION NUMBER: US/09/978,608A
; CURRENT FILING DATE: 2001-10-16
; NUMBER OF SEQ ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 370
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-978-608A-370

Query Match 100.0%; Score 587; DB 10; Length 111;
Best Local Similarity 100.0%; Pred. No. 1.4e-55;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MSLPPRRAPPVSMRLAAALLLLLLLALYTRVDGSKCKSRKGPKIRYSDVKLEMKPKY 60
Db 1 MSLPPRRAPPVSMRLAAALLLLLLLALYTRVDGSKCKSRKGPKIRYSDVKLEMKPKY 60

Qy 61 PHCEKRWIITTKSVSRYGQEHCHLHPKLOSTKRFIKWYNAMNEKRRVYEE 111
Db 61 PHCEKRWIITTKSVSRYGQEHCHLHPKLOSTKRFIKWYNAMNEKRRVYEE 111

RESULT 8
US-09-978-585A-370
; Sequence 370, Application US/09978585A
; Publication No. US20030049633A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C4
; CURRENT APPLICATION NUMBER: US/09/978,191A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077641
; NUMBER OF SEQ ID NOS: 624

; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C15
; CURRENT APPLICATION NUMBER: US/09/978,585A
; CURRENT FILING DATE: 2001-10-16
; NUMBER OF SEQ ID NOS: 624
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; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match      100.0%; Score 587; DB 10; Length 111;
Best Local Similarity 100.0%; Pred. No. 1.4e-55;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY  1 MSLPPRAPVPSWRLAAALLLLALYTARVDGSKCKSRKGPVKIRYSDVKLEMKPKY 60
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QY  61 PHCEKMWLTTSVSRVSGOEHLCHLPKLOSTRFKFIKWYNWNEKRRVYEE 111
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Db  61 PHCEKMWLTTSVSRVSGOEHLCHLPKLOSTRFKFIKWYNWNEKRRVYEE 111
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RESULT 10
US-09-978-403A-370
; Sequence 370, Application US/09978403A
; Publication No. US20030050240A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deenoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC17
; CURRENT APPLICATION NUMBER: US/09/978,403A
; CURRENT FILING DATE: 2002-03-19
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
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; PRIOR FILING DATE: 1997-10-17
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; PRIOR FILING DATE: 1998-05-15
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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match      100.0%; Score 587; DB 10; Length 111;
Best Local Similarity 100.0%; Pred. No. 1.4e-55;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 61 PHCEKWIITTKSVSRVGOEHLHPKLOSTKRFIKWYNWNEKRRVYEE 111
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Db 61 PHCEKWIITTKSVSRVGOEHLHPKLOSTKRFIKWYNWNEKRRVYEE 111
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RESULT 11
US-09-978-564A-370
; Sequence 370, Application US/09978564A
; Publication No. US20030050241A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deanoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kjavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630F1C25
; CURRENT APPLICATION NUMBER: US/09/978,564A
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
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;	PRIOR APPLICATION NUMBER: 60/083742	
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;	PRIOR APPLICATION NUMBER: 60/085697	
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Query Match	100.0%;	Score 587;	DB 10;	Length 111;
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Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 61 PHCEKVIITTKSVSRVSGEHLHPKLOSTKRFIKWYNWNEKRRVYEE 111

#### RESULT 12

US-09-999-833A-370

; Sequence 370, Application US/09998833A

; Publication No. US20030054405A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Baker Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleon

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Kuo, Sophia S.

; APPLICANT: Napier, Mary A.

; APPLICANT: Pan, James;

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Shelton, David L.

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tunas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; TITLE OF INVENTION: Acids Encoding the Same

; FILE REFERENCE: P2630P1C65

; CURRENT APPLICATION NUMBER: US/09/999,833A

; CURRENT FILING DATE: 2001-10-24

; PRIOR APPLICATION NUMBER: 09/918585

; PRIOR FILING DATE: 2001-07-30

; PRIOR APPLICATION NUMBER: 60/062250

; PRIOR FILING DATE: 1997-10-17

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59 PRIOR APPLICATION NUMBER: 60/085579  
60 PRIOR FILING DATE: 1998-05-15  
61 PRIOR APPLICATION NUMBER: 60/085580  
62 PRIOR FILING DATE: 1998-05-15  
63 PRIOR APPLICATION NUMBER: 60/085573  
64 PRIOR FILING DATE: 1998-05-15  
65 PRIOR APPLICATION NUMBER: 60/085704  
66 PRIOR FILING DATE: 1998-05-15  
67 PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 587; DB 10; Length 111;  
Best Local Similarity 100.0%; Pred. No. 1.4e-55;  
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 1 MSLPPRRAPPVSMRLAAALLLLALY TARVDGSKCKSRGPKIRYSDVKKLEMPKY 60  
Qy 61 PHCEERKWIITTKSVSRGRGQEHCLHPKLOSTKRFIKWYNANWKEKRVYEE 111  
Db 61 PHCEERKWIITTKSVSRGRGQEHCLHPKLOSTKRFIKWYNANWKEKRVYEE 111

RESULT 13

US-09-981-915A-370  
; Sequence 370, Application US/09981915A  
; Publication No. US20030054986A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Baton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Kuo, Sophia S.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James;  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Shelton, David L.  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2630P1C12  
; CURRENT APPLICATION NUMBER: US/09/981.915A  
; CURRENT FILING DATE: 2001-10-16  
; PRIOR APPLICATION NUMBER: 09/918585  
; PRIOR FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/064249  
; PRIOR FILING DATE: 1997-11-03  
; PRIOR APPLICATION NUMBER: 60/065311  
; PRIOR FILING DATE: 1997-11-13  
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; PRIOR APPLICATION NUMBER: 60/078004  
; PRIOR FILING DATE: 1998-03-13  
; PRIOR APPLICATION NUMBER: 60/078886  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/078936  
; PRIOR FILING DATE: 1998-03-20  
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; PRIOR FILING DATE: 1998-03-20

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4	PRIOR FILING DATE: 1998-03-25	
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7	PRIOR APPLICATION NUMBER: 60/079664	
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63	PRIOR APPLICATION NUMBER: 60/082700	
64	PRIOR FILING DATE: 1998-04-22	
65	PRIOR APPLICATION NUMBER: 60/082797	
66	PRIOR FILING DATE: 1998-04-22	
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68	PRIOR FILING DATE: 1998-04-23	
69	PRIOR APPLICATION NUMBER: 60/083336	

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2	PRIOR APPLICATION NUMBER: 60/083322	
3	PRIOR FILING DATE: 1998-04-28	
4	PRIOR APPLICATION NUMBER: 60/083392	
5	PRIOR FILING DATE: 1998-04-29	
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7	PRIOR FILING DATE: 1998-04-29	
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9	PRIOR FILING DATE: 1998-04-29	
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18	PRIOR APPLICATION NUMBER: 60/083559	
19	PRIOR FILING DATE: 1998-04-29	
20	PRIOR APPLICATION NUMBER: 60/083500	
21	PRIOR FILING DATE: 1998-04-29	
22	PRIOR APPLICATION NUMBER: 60/083742	
23	PRIOR FILING DATE: 1998-04-30	
24	PRIOR APPLICATION NUMBER: 60/084366	
25	PRIOR FILING DATE: 1998-05-05	
26	PRIOR APPLICATION NUMBER: 60/084414	
27	PRIOR FILING DATE: 1998-05-06	
28	PRIOR APPLICATION NUMBER: 60/084441	
29	PRIOR FILING DATE: 1998-05-06	
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58	PRIOR APPLICATION NUMBER: 60/085573	
59	PRIOR FILING DATE: 1998-05-15	
60	PRIOR APPLICATION NUMBER: 60/085704	
61	PRIOR FILING DATE: 1998-05-15	
62	PRIOR APPLICATION NUMBER: 60/085697	

Query Match	100.0%;	Score 587;	DB 10;	Length 111;
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Matches 111;	Conservative 0;	Mismatches 0;	Indels 0;	

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**Db** 1 MSLIPRRAPPVSMRLAAALLLLLLLALYARVDGSKCKCSRGPKIRYSVDVKLEMPKY 60	

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Db 61 PHCEKMWITTSVSRYGQEHCHLPKLOSTKRFIKWYNWNEKRRVVEE 111

## RESULT 14

US-09-978-824-370  
Sequence 370, Application US/09978824  
Publication No. US20030055216A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Baker Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Deenoyers, Luc  
APPLICANT: Eaton, Dan  
APPLICANT: Ferrara, Napoleon  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth J.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Kuo, Sophia S.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Shelton, David L.  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: P2630F1C14  
FILE REFERENCE: P2630F1C14  
CURRENT FILING DATE: 2001-10-17  
CURRENT FILING DATE: 2001-10-17  
PRIOR APPLICATION NUMBER: 09/918585  
PRIOR FILING DATE: 2001-07-30  
PRIOR APPLICATION NUMBER: 60/062250  
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PRIOR APPLICATION NUMBER: 60/082797  
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PRIOR FILING DATE: 1998-04-23  
PRIOR APPLICATION NUMBER: 60/083336  
PRIOR FILING DATE: 1998-04-27  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28

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; PRIOR APPLICATION NUMBER: 60/083392
; PRIOR FILING DATE: 1998-04-29
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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match      100.0%; Score 587; DB 10; Length 111;
Best Local Similarity 100.0%; Pred. No. 1.4e-55;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MSLPRAPPVSMRLAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
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Db 1 MSLPRAPPVSMRLAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
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Qy 61 PHCEKRVITTKSVRSYRGQEHCLHPKLOSTKPKFIKWYNAWNEKRRVYEE 111
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Db 61 PHCEKRVITTKSVRSYRGQEHCLHPKLOSTKPKFIKWYNAWNEKRRVYEE 111
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RESULT 15
US-09-918-585A-370
; Sequence 370, Application US/09918585A
; Publication No. US20030060406A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deenoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630F1C1
; CURRENT APPLICATION NUMBER: US/09/918,585A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
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; Sequence 370, Application US/09999834A  
; Publication No. US20030064407A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnovers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Kuo, Sophia S.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James;  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Shelton, David L.  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2630P1C75  
; CURRENT APPLICATION NUMBER: US/09/999,834A  
; CURRENT FILING DATE: 2001-10-24  
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; PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 587; DB 10; Length 111;

Best Local Similarity 100.0%; Pred. No. 1.4e-55;

Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MSLLPRAPPVSMRLAAALLLLALYTARVDGSKCKSRKGPRIYSDVKLEMPKY 60

Db 1 MSLLPRAPPVSMRLAAALLLLALYTARVDGSKCKSRKGPRIYSDVKLEMPKY 60

Qy 61 PHCEKRWIITTSVSRVSGQEHCLHPKLOSTKRFIKWYNWNEKRRVYEE 111

Db 61 PHCEKRWIITTSVSRVSGQEHCLHPKLOSTKRFIKWYNWNEKRRVYEE 111

RESULT 17

US-09-978-423A-370

; Sequence 370, Application US/09978423A

; Publication No. US20030069178A1

; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Deenoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Kuo, Sophia S.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James;  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Shelton, David L.  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tuma, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2630P1C21  
; CURRENT APPLICATION NUMBER: US/09/978,423A  
; CURRENT FILING DATE: 2002-05-16  
; PRIOR APPLICATION NUMBER: 09/918585  
; PRIOR FILING DATE: 2001-07-30  
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; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
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; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2630P1C6  
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PRIOR FILING DATE: 1998-05-15  
PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 587; DB 10; Length 111;  
Best Local Similarity 100.0%; Pred. No. 1.4e-55;  
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MSLPRAPPVSMRLAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60  
Db 1 MSLPRAPPVSMRLAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60  
Qy 61 PHCEKRWIITKSVSRVSGEHLHPKLOSTKRFIKWYNWNEKRRVYEE 111  
Db 61 PHCEKRWIITKSVSRVSGEHLHPKLOSTKRFIKWYNWNEKRRVYEE 111

## RESULT 19

US-09-999-830A-370  
Sequence 370, Application US/09999830A  
Publication No. US2003007700A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Baker Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnovers, Luc  
APPLICANT: Eaton, Dan

APPLICANT: Ferrara, Napoleon  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
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APPLICANT: Kijavlin, Ivar J.  
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APPLICANT: Pan, James;  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Shelton, David L.  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2630PIC70  
CURRENT APPLICATION NUMBER: US/09/999,830A  
CURRENT FILING DATE: 2001-08-31  
PRIOR APPLICATION NUMBER: 09/918585  
PRIOR FILING DATE: 2001-07-30  
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PRIOR APPLICATION NUMBER: 60/079920  
PRIOR FILING DATE: 1998-03-30



APPLICANT: Gao, Wei-Qiang  
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APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth J.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Kuo, Sophia S.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James;  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Shelton, David L.  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2630P1C26  
CURRENT APPLICATION NUMBER: US/09/978,757A  
CURRENT FILING DATE: 2002-03-19  
PRIOR APPLICATION NUMBER: 09/918585  
PRIOR FILING DATE: 2001-07-30  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/064249  
PRIOR FILING DATE: 1997-11-03  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066364  
PRIOR FILING DATE: 1997-11-21  
PRIOR APPLICATION NUMBER: 60/077450  
PRIOR FILING DATE: 1998-03-10  
PRIOR APPLICATION NUMBER: 60/077632  
PRIOR FILING DATE: 1998-03-11  
PRIOR APPLICATION NUMBER: 60/077641  
PRIOR FILING DATE: 1998-03-11  
PRIOR APPLICATION NUMBER: 60/077649  
PRIOR FILING DATE: 1998-03-11  
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PRIOR APPLICATION NUMBER: 60/078939  
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PRIOR FILING DATE: 1998-04-29  
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PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083554  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083558  
PRIOR FILING DATE: 1998-04-29  
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PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083500  
PRIOR FILING DATE: 1998-04-29

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; PRIOR APPLICATION NUMBER: 60/083742
; PRIOR FILING DATE: 1998-04-30
; PRIOR APPLICATION NUMBER: 60/084366
; PRIOR FILING DATE: 1998-05-05
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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match          100.0%; Score 587; DB 10; Length 111;
Best Local Similarity 100.0%; Pred. No. 1.4e-55;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  MSLLPRAPPVSMRLAAALLLLLALYARVDGSKCSCRKPGPKIRYSDVKKLEMKPKY 60
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Db      1  MSLLPRAPPVSMRLAAALLLLLALYARVDGSKCSCRKPGPKIRYSDVKKLEMKPKY 60
        |||||

Qy     61  PHCEKRWIITTKSVRYRGOEHCLHPKLQSTKRFIKWYNANNEKRRVVEE 111
        |||||
Db     61  PHCEKRWIITTKSVRYRGOEHCLHPKLQSTKRFIKWYNANNEKRRVVEE 111
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RESULT 21
US-09-978-187B-370
; Sequence 370, Application US/09978187B
; Publication No. US200300967441
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Flivaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Geurtsen, Mary E.
```





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; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC16
; CURRENT APPLICATION NUMBER: US/09/978, 643A
; CURRENT FILING DATE: 2001-10-16
; NUMBER OF SEQ ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 370
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-978-643A-370

Query Match 100.0%; Score 587; DB 10; Length 111;
Best Local Similarity 100.0%; Pred. No. 1.4e-55;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSLPPRRAPPVSMRLAAALLLLLLLALYARVDGSKCKSRKGPRIYSDVKLEMKPKY 60
Db 1 MSLPPRRAPPVSMRLAAALLLLLLLALYARVDGSKCKSRKGPRIYSDVKLEMKPKY 60

QY 61 PHCEERWVITTKSVSRYGQEHCHLPKLOSTKRFIKWYNAMNEKRRVYEE 111
Db 61 PHCEERWVITTKSVSRYGQEHCHLPKLOSTKRFIKWYNAMNEKRRVYEE 111

; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC2
; CURRENT APPLICATION NUMBER: US/09/978, 298A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; TITLE OF INVENTION: Acids Encoding the Same
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; FILE REFERENCE: P2630PIC24
; CURRENT APPLICATION NUMBER: US/09/978, 375A
; CURRENT FILING DATE: 2002-04-19
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 624
; SEQ ID NO 370
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-978-375A-370

Query Match 100.0%; Score 587; DB 10; Length 111;
Best Local Similarity 100.0%; Pred. No. 1.4e-55;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSLPPRRAPPVSMRLAAALLLLLLLALYARVDGSKCKSRKGPRIYSDVKLEMKPKY 60
Db 1 MSLPPRRAPPVSMRLAAALLLLLLLALYARVDGSKCKSRKGPRIYSDVKLEMKPKY 60

QY 61 PHCEERWVITTKSVSRYGQEHCHLPKLOSTKRFIKWYNAMNEKRRVYEE 111
Db 61 PHCEERWVITTKSVSRYGQEHCHLPKLOSTKRFIKWYNAMNEKRRVYEE 111

RESULT 24
US-09-978-298A-370
; Sequence 370, Application US/09978298A
; Publication No. US20030134785A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC2
; CURRENT APPLICATION NUMBER: US/09/978, 298A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; TITLE OF INVENTION: Acids Encoding the Same
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1	PRIOR APPLICATION NUMBER: 60/077632	1	PRIOR FILING DATE: 1998-04-15
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3	PRIOR APPLICATION NUMBER: 60/077641	3	PRIOR FILING DATE: 1998-04-21
4	PRIOR FILING DATE: 1998-03-11	4	PRIOR APPLICATION NUMBER: 60/082569
5	PRIOR APPLICATION NUMBER: 60/077649	5	PRIOR FILING DATE: 1998-04-21
6	PRIOR FILING DATE: 1998-03-11	6	PRIOR APPLICATION NUMBER: 60/082704
7	PRIOR APPLICATION NUMBER: 60/077791	7	PRIOR FILING DATE: 1998-04-22
8	PRIOR FILING DATE: 1998-03-12	8	PRIOR APPLICATION NUMBER: 60/082804
9	PRIOR APPLICATION NUMBER: 60/078004	9	PRIOR FILING DATE: 1998-04-22
10	PRIOR FILING DATE: 1998-03-13	10	PRIOR APPLICATION NUMBER: 60/082700
11	PRIOR APPLICATION NUMBER: 60/078886	11	PRIOR FILING DATE: 1998-04-22
12	PRIOR FILING DATE: 1998-03-20	12	PRIOR APPLICATION NUMBER: 60/082797
13	PRIOR APPLICATION NUMBER: 60/078936	13	PRIOR FILING DATE: 1998-04-22
14	PRIOR FILING DATE: 1998-03-20	14	PRIOR APPLICATION NUMBER: 60/082796
15	PRIOR APPLICATION NUMBER: 60/078910	15	PRIOR FILING DATE: 1998-04-23
16	PRIOR FILING DATE: 1998-03-20	16	PRIOR APPLICATION NUMBER: 60/083336
17	PRIOR APPLICATION NUMBER: 60/078939	17	PRIOR FILING DATE: 1998-04-27
18	PRIOR FILING DATE: 1998-03-20	18	PRIOR APPLICATION NUMBER: 60/083322
19	PRIOR APPLICATION NUMBER: 60/079294	19	PRIOR FILING DATE: 1998-04-28
20	PRIOR FILING DATE: 1998-03-25	20	PRIOR APPLICATION NUMBER: 60/083392
21	PRIOR APPLICATION NUMBER: 60/079656	21	PRIOR FILING DATE: 1998-04-29
22	PRIOR FILING DATE: 1998-03-26	22	PRIOR APPLICATION NUMBER: 60/083495
23	PRIOR APPLICATION NUMBER: 60/079664	23	PRIOR FILING DATE: 1998-04-29
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25	PRIOR APPLICATION NUMBER: 60/079689	25	PRIOR FILING DATE: 1998-04-29
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27	PRIOR APPLICATION NUMBER: 60/079653	27	PRIOR FILING DATE: 1998-04-29
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29	PRIOR APPLICATION NUMBER: 60/079728	29	PRIOR FILING DATE: 1998-04-29
30	PRIOR FILING DATE: 1998-03-27	30	PRIOR APPLICATION NUMBER: 60/083554
31	PRIOR APPLICATION NUMBER: 60/079786	31	PRIOR FILING DATE: 1998-04-29
32	PRIOR FILING DATE: 1998-03-27	32	PRIOR APPLICATION NUMBER: 60/083558
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34	PRIOR FILING DATE: 1998-03-30	34	PRIOR APPLICATION NUMBER: 60/083559
35	PRIOR APPLICATION NUMBER: 60/079923	35	PRIOR FILING DATE: 1998-04-29
36	PRIOR FILING DATE: 1998-03-30	36	PRIOR APPLICATION NUMBER: 60/083500
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42	PRIOR FILING DATE: 1998-03-31	42	PRIOR APPLICATION NUMBER: 60/084414
43	PRIOR APPLICATION NUMBER: 60/080194	43	PRIOR FILING DATE: 1998-05-06
44	PRIOR FILING DATE: 1998-03-31	44	PRIOR APPLICATION NUMBER: 60/084441
45	PRIOR APPLICATION NUMBER: 60/080327	45	PRIOR FILING DATE: 1998-05-06
46	PRIOR FILING DATE: 1998-04-01	46	PRIOR APPLICATION NUMBER: 60/084637
47	PRIOR APPLICATION NUMBER: 60/080328	47	PRIOR FILING DATE: 1998-05-07
48	PRIOR FILING DATE: 1998-04-01	48	PRIOR APPLICATION NUMBER: 60/084639
49	PRIOR APPLICATION NUMBER: 60/080333	49	PRIOR FILING DATE: 1998-05-07
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51	PRIOR APPLICATION NUMBER: 60/080334	51	PRIOR FILING DATE: 1998-05-07
52	PRIOR FILING DATE: 1998-04-01	52	PRIOR APPLICATION NUMBER: 60/084598
53	PRIOR APPLICATION NUMBER: 60/081070	53	PRIOR FILING DATE: 1998-05-07
54	PRIOR FILING DATE: 1998-04-08	54	PRIOR APPLICATION NUMBER: 60/084600
55	PRIOR APPLICATION NUMBER: 60/081049	55	PRIOR FILING DATE: 1998-05-07
56	PRIOR FILING DATE: 1998-04-08	56	PRIOR APPLICATION NUMBER: 60/084627
57	PRIOR APPLICATION NUMBER: 60/081071	57	PRIOR FILING DATE: 1998-05-07
58	PRIOR FILING DATE: 1998-04-08	58	PRIOR APPLICATION NUMBER: 60/084643
59	PRIOR APPLICATION NUMBER: 60/081195	59	PRIOR FILING DATE: 1998-05-07
60	PRIOR FILING DATE: 1998-04-08	60	PRIOR APPLICATION NUMBER: 60/085339
61	PRIOR APPLICATION NUMBER: 60/081203	61	PRIOR FILING DATE: 1998-05-13
62	PRIOR FILING DATE: 1998-04-09	62	PRIOR APPLICATION NUMBER: 60/085338
63	PRIOR APPLICATION NUMBER: 60/081229	63	PRIOR FILING DATE: 1998-05-13
64	PRIOR FILING DATE: 1998-04-09	64	PRIOR APPLICATION NUMBER: 60/085323
65	PRIOR APPLICATION NUMBER: 60/081955	65	PRIOR FILING DATE: 1998-05-13
66	PRIOR FILING DATE: 1998-04-15	66	PRIOR APPLICATION NUMBER: 60/085582
67	PRIOR APPLICATION NUMBER: 60/081817	67	PRIOR FILING DATE: 1998-05-15
68	PRIOR FILING DATE: 1998-04-15	68	PRIOR APPLICATION NUMBER: 60/085700
69	PRIOR APPLICATION NUMBER: 60/081819	6	

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; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match      100.0%; Score 587; DB 10; Length 111;
Best Local Similarity 100.0%; Pred. No. 1.4e-55;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  MSLLPRAPVSVRLAAALLLLALYTARVDGSKCKSRKPKIRYSDVKLEMKPKY 60
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Db      1  MSLLPRAPVSVRLAAALLLLALYTARVDGSKCKSRKPKIRYSDVKLEMKPKY 60
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QY      61  PHCEKRWIITTSVSRYSRQEHCHLHPKLOSTKRFIKWYNAMNEKRRVYEE 111
      |||||
Db      61  PHCEKRWIITTSVSRYSRQEHCHLHPKLOSTKRFIKWYNAMNEKRRVYEE 111
      |||||

RESULT 25
US-09-978-188A-370
; Sequence 370, Application US/09978188A
; Publication No. US20030139328A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deenoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Flivaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630P1C8
; CURRENT APPLICATION NUMBER: US/09/978,188A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
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; PRIOR FILING DATE: 1998-03-12
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; PRIOR FILING DATE: 1998-03-20
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; PRIOR APPLICATION NUMBER: 60/078910
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; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
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; PRIOR APPLICATION NUMBER: 60/079656
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; PRIOR FILING DATE: 1998-03-27
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; PRIOR APPLICATION NUMBER: 60/080105
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; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080328
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; PRIOR APPLICATION NUMBER: 60/080333
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; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/081070
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; PRIOR APPLICATION NUMBER: 60/081049
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; PRIOR APPLICATION NUMBER: 60/081071
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081195
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081203
; PRIOR FILING DATE: 1998-04-09
; PRIOR APPLICATION NUMBER: 60/081229
; PRIOR FILING DATE: 1998-04-09
; PRIOR APPLICATION NUMBER: 60/081955
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081817
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081819
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081952
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081838
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/082568
; PRIOR FILING DATE: 1998-04-21
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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: June 30, 2005, 07:46:48 ; Search time 163 Seconds  
(without alignments)

263.377 Million cell updates/sec

Title: US-10-791-618-2

Perfect score: 587

Sequence: 1 MSLLPRRAPVPVSMRLLAAL.....TKRFIKWYNAWNEKRRVYEE 111

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 100 summaries

Database :

A\_Geneseq\_16Dec04:\*

1: Geneseqp1980s:\*

2: Geneseqp1990s:\*

3: Geneseqp2000s:\*

4: Geneseqp2001s:\*

5: Geneseqp2002s:\*

6: Geneseqp2003as:\*

7: Geneseqp2003bs:\*

8: Geneseqp2004s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	587	100.0	111	2	AA41739 Human PRO
2	587	100.0	111	2	AA428290 Human PRO
3	587	100.0	111	3	AA33423 Human PRO
4	587	100.0	111	3	AA44295 Human PRO
5	587	100.0	111	4	AA88478 Human mem
6	587	100.0	111	5	ABG70798 Human Bol
7	587	100.0	111	6	ABO25241 Novel hum
8	587	100.0	111	6	ABU72247 Novel hum
9	587	100.0	111	6	AB89340 Amino aci
10	587	100.0	111	6	ABU84927 Human sec
11	587	100.0	111	6	ABU61125 Human PRO
12	587	100.0	111	6	ABU80394 Human sec
13	587	100.0	111	6	ADA24909 Novel hum
14	587	100.0	111	6	ABO19696 Novel hum
15	587	100.0	111	6	ADA12570 Human sec
16	587	100.0	111	6	ABO19587 Novel hum
17	587	100.0	111	7	ADB73876 Human PRO
18	587	100.0	111	7	ADB76592 Human PRO
19	587	100.0	111	7	ADC44018 Human sec
20	587	100.0	111	7	ADC61778 Human sec
21	587	100.0	111	7	ADC63742 Human sec
22	587	100.0	111	7	ADC66842 Human sec
23	587	100.0	111	7	ADC68966 Human sec
24	587	100.0	111	7	ADC63026 Human sec
25	587	100.0	111	7	ADC68091 Human sec

26	587	100.0	111	7	ADC41411 Human sec
27	587	100.0	111	7	ADC67466 Human sec
28	587	100.0	111	7	ADC62402 Human sec
29	587	100.0	111	7	ADC42035 Human sec
30	587	100.0	111	7	ADC49404 Human sec
31	587	100.0	111	7	ADC35458 Human sec
32	587	100.0	111	7	ADC16572 Human sec
33	587	100.0	111	7	ADD73187 Human sec
34	587	100.0	111	7	ADD72545 Human sec
35	587	100.0	111	7	ADD17196 Human sec
36	587	100.0	111	7	ADF47210 Human sec
37	587	100.0	111	7	ADG52967 Human sec
38	587	100.0	111	7	ADG60287 Human sec
39	587	100.0	111	7	ADI61047 Human sec
40	587	100.0	111	8	ADG48704 Human sec
41	587	100.0	111	8	ADG89805 Human sec
42	587	100.0	111	8	ADF61445 Human sec
43	587	100.0	111	8	ADF40137 Human sec
44	587	100.0	111	8	ADF45933 Human sec
45	587	100.0	111	8	ADF24329 Human sec
46	587	100.0	111	8	ADF40761 Human sec
47	587	100.0	111	8	ADF23705 Human sec
48	587	100.0	111	8	ADF33688 Human sec
49	587	100.0	111	8	ADF27155 Human sec
50	587	100.0	111	8	ADF27791 Human sec
51	587	100.0	111	8	ADF41385 Human sec
52	587	100.0	111	8	ADF33064 Human sec
53	587	100.0	111	8	ADF25430 Human sec
54	587	100.0	111	8	ADF26531 Human sec
55	587	100.0	111	8	ADF34320 Human sec
56	587	100.0	111	8	ADF46557 Human sec
57	587	100.0	111	8	ADG50543 Human sec
58	587	100.0	111	8	ADG49919 Human sec
59	587	100.0	111	8	ADG51791 Human sec
60	587	100.0	111	8	ADG49295 Human sec
61	587	100.0	111	8	ADG48671 Human sec
62	587	100.0	111	8	ADG51167 Human sec
63	587	100.0	111	8	ADG59111 Human sec
64	587	100.0	111	8	ADG62567 Human sec
65	587	100.0	111	8	ADH25592 Human neu
66	587	100.0	111	8	ADM17369 Human sec
67	587	100.0	111	8	ADM07203 Human sec
68	587	100.0	204	8	ADO55111 Protein #
69	582	99.1	111	2	AAW29291 Human che
70	582	99.1	111	4	AAAG67978 Human mac
71	530	90.3	149	4	AAU31032 Novel hum
72	527	89.8	99	2	AA31612 Human neo
73	527	89.8	99	5	ABW79372 Human SCY
74	527	89.8	99	6	ABG74456 Human neo
75	527	89.8	99	8	ADK66222 Human NEO
76	527	89.8	99	8	ADJ75675 Marker ge
77	522	88.9	99	2	AAW29292 Human che
78	519	88.4	108	4	AAO06902 Human pol
79	509	86.7	95	3	AA31613 Murine ne
80	509	86.7	95	4	AAE05371 Human huK
81	509	86.7	95	5	ABW72228 Human pro
82	506	86.2	99	2	AA31613 Murine ne
83	506	86.2	99	3	AA31613 Murine ne
84	506	86.2	99	3	AA31613 Murine ne
85	506	86.2	99	3	AA31613 Murine ne
86	506	86.2	99	4	AA31613 Murine ne
87	506	86.2	99	4	AA31613 Murine ne
88	506	86.2	99	4	AA31613 Murine ne
89	506	86.2	99	5	ABW72275 Murine pr
90	506	86.2	99	5	ABW72275 Murine pr
91	506	86.2	99	5	ABW72275 Murine pr
92	506	86.2	99	6	ABW72275 Murine pr
93	506	86.2	99	6	ABW72275 Murine pr
94	505	86.0	94	2	AA31615 Macaque n
95	505	86.0	94	2	AA31615 Macaque n
96	505	86.0	94	8	ADK66241 Macaca sp
97	84.7	84.7	92	6	ABU99159 Novel hum
98	497	84.7	92	8	ADM93883 Human NOV

99 495 84.3 99 8 ADJ76372 Marker ge  
100 481 81.9 91 2 AAW69993 Revised p

## ALIGNMENTS

## RESULT 1

AAW41739  
ID AAW41739 standard; protein; 111 AA.

AC AAW41739;

XX 07-DEC-1999 (first entry)

DT Human PRO273 protein sequence.

XX Human; PRO; EST; expressed sequence tag; PCR primer; hybridisation;  
KW probe; blood coagulation disorder; cancer; cellular adhesion disorder;  
KW secreted protein; transmembrane protein.

XX Homo sapiens.

XX WO9946281-A2.

XX 16-SEP-1999.

XX 08-MAR-1999; 99WO-US005028.

XX 10-MAR-1998; 98US-0077450P.

PR 11-MAR-1998; 98US-0077632P.

PR 11-MAR-1998; 98US-0077641P.

PR 11-MAR-1998; 98US-0077649P.

PR 12-MAR-1998; 98US-0077791P.

PR 13-MAR-1998; 98US-0078004P.

PR 17-MAR-1998; 98US-00404020.

PR 20-MAR-1998; 98US-0078886P.

PR 20-MAR-1998; 98US-0078910P.

PR 20-MAR-1998; 98US-0078936P.

PR 20-MAR-1998; 98US-0078939P.

PR 25-MAR-1998; 98US-0079229P.

PR 26-MAR-1998; 98US-0079656P.

PR 27-MAR-1998; 98US-0079663P.

PR 27-MAR-1998; 98US-0079664P.

PR 27-MAR-1998; 98US-0079689P.

PR 27-MAR-1998; 98US-0079728P.

PR 27-MAR-1998; 98US-0079786P.

PR 30-MAR-1998; 98US-0079920P.

PR 30-MAR-1998; 98US-0079923P.

PR 31-MAR-1998; 98US-0080105P.

PR 31-MAR-1998; 98US-0080107P.

PR 31-MAR-1998; 98US-0080165P.

PR 31-MAR-1998; 98US-0080194P.

PR 01-APR-1998; 98US-0080327P.

PR 01-APR-1998; 98US-0080328P.

PR 01-APR-1998; 98US-0080333P.

PR 01-APR-1998; 98US-0080334P.

PR 08-APR-1998; 98US-0081049P.

PR 08-APR-1998; 98US-0081070P.

PR 08-APR-1998; 98US-0081071P.

PR 09-APR-1998; 98US-0081195P.

PR 09-APR-1998; 98US-0081203P.

PR 09-APR-1998; 98US-0081229P.

PR 15-APR-1998; 98US-0081817P.

PR 15-APR-1998; 98US-0081838P.

PR 15-APR-1998; 98US-0081952P.

PR 15-APR-1998; 98US-0081955P.

PR 21-APR-1998; 98US-0082568P.

PR 21-APR-1998; 98US-0082569P.

PR 22-APR-1998; 98US-0082700P.

PR 22-APR-1998; 98US-0082704P.

PR 22-APR-1998; 98US-0082804P.

PR 23-APR-1998; 98US-0082767P.

PR 23-APR-1998; 98US-0082796P.  
PR 27-APR-1998; 98US-0083336P.  
PR 28-APR-1998; 98US-0083322P.  
PR 29-APR-1998; 98US-0083392P.  
PR 29-APR-1998; 98US-0083495P.  
PR 29-APR-1998; 98US-0083496P.  
PR 29-APR-1998; 98US-0083499P.  
PR 29-APR-1998; 98US-0083500P.  
PR 29-APR-1998; 98US-0083545P.  
PR 29-APR-1998; 98US-0083554P.  
PR 29-APR-1998; 98US-0083588P.  
PR 29-APR-1998; 98US-0083599P.  
PR 30-APR-1998; 98US-0083742P.  
PR 05-MAY-1998; 98US-0084366P.  
PR 06-MAY-1998; 98US-0084414P.  
PR 06-MAY-1998; 98US-0084441P.  
PR 07-MAY-1998; 98US-0084598P.  
PR 07-MAY-1998; 98US-0084600P.  
PR 07-MAY-1998; 98US-0084627P.  
PR 07-MAY-1998; 98US-0084637P.  
PR 07-MAY-1998; 98US-0084639P.  
PR 07-MAY-1998; 98US-0084640P.  
PR 07-MAY-1998; 98US-0084643P.  
PR 13-MAY-1998; 98US-0085323P.  
PR 13-MAY-1998; 98US-0085338P.  
PR 13-MAY-1998; 98US-0085339P.  
PR 15-MAY-1998; 98US-0085573P.  
PR 15-MAY-1998; 98US-0085579P.  
PR 15-MAY-1998; 98US-0085580P.  
PR 15-MAY-1998; 98US-0085582P.  
PR 15-MAY-1998; 98US-0085689P.  
PR 15-MAY-1998; 98US-0085697P.  
PR 15-MAY-1998; 98US-0085700P.  
PR 18-MAY-1998; 98US-0085704P.  
PR 18-MAY-1998; 98US-0086023P.  
PR 22-MAY-1998; 98US-0086392P.  
PR 22-MAY-1998; 98US-0086414P.  
PR 22-MAY-1998; 98US-0086430P.  
PR 22-MAY-1998; 98US-0086486P.  
PR 28-MAY-1998; 98US-0087098P.  
PR 28-MAY-1998; 98US-0087106P.  
PR 28-MAY-1998; 98US-0087208P.  
PR 30-JUL-1998; 98US-0094651P.  
PR 11-SEP-1998; 98US-0100038P.  
XX (GETH ) GENENTECH INC.  
PA Wood WI, Goddard A, Gurney A, Yuan J, Baker KP, Chen J;  
XX WPI; 1999-551358/46.  
XX N-PSDB; AAZ34205.  
XX  
PT New secreted and transmembrane polypeptides and their polynucleotides,  
PT useful for treating blood coagulation disorders, cancers and cellular  
PT adhesion disorders.  
XX  
XX Claim 12; Fig 149; 530pp; English.  
PS  
XX The present invention describes secreted and transmembrane polypeptides  
XX and their polynucleotides. The nucleotide sequences are useful as sources  
XX of probes, primers, for chromosome mapping, and for generation of  
XX antisense sequences. They can also be used to create transgenic animals.  
XX The proteins can be used to treat a variety of diseases and disorders.  
XX depending on their function. Diseases that may be treated include blood  
XX coagulation disorders, cancers and cellular adhesion disorders. They may  
XX also be used to raise antibodies. AAZ33891 to AAZ34338, and AAZ41685 to  
XX AAZ41774 represent polynucleotide and polypeptide sequence given in the  
XX exemplification of the present invention  
XX  
SQ Sequence 111 AA;

Query Match 100.0%; Score 587; DB 2; Length 111;  
Best Local Similarity 100.0%; Pred. No. 1.6e-59;



Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MSLLPRAPPVSMRLAAALLLLALYARVDGSKCKSRKGPRIYSDVKLEMPKY 60  
 Db 1 MSLLPRAPPVSMRLAAALLLLALYARVDGSKCKSRKGPRIYSDVKLEMPKY 60

Qy 61 PHCEKVIITTKSVSRGQEHCLHPKLOSTKRFIKWYNANNEKRVYEE 111  
 Db 61 PHCEKVIITTKSVSRGQEHCLHPKLOSTKRFIKWYNANNEKRVYEE 111

RESULT 2  
 AAY28290  
 ID AAY28290 standard; protein; 111 AA.  
 XX  
 AC AAY28290;  
 XX  
 DT 28-SEP-1999 (first entry)  
 XX  
 DE Tim-1 protein.  
 XX  
 KW Chemokine; CXC; Tim-1; inflammation; heart attack; stroke; infection; ss;  
 KW trauma; radiation; burns; frostbite; corrosive chemical; gene therapy.  
 KW  
 OS Homo sapiens.  
 XX  
 XX WO9933990-A1.  
 XX  
 XX 08-JUL-1999.  
 XX  
 PF 14-DEC-1998; 98WO-US026546.  
 XX  
 XX 30-DEC-1997; 97US-0068955P.  
 XX  
 XX (CHIR ) CHIRON CORP.  
 XX  
 XX Chen TT, Pot D, Kassam A;  
 XX  
 XX WPI; 1999-430244/36.  
 DR N-PSDB; AAX89708.  
 DR  
 XX A new human CXC chemokine, Tim-1, useful for treating inflammation.  
 PT  
 XX Claim 1; Page 43; 46pp; English.  
 PS  
 CC This is the amino acid sequence for the Tim-1 CXC chemokine. The Tim-1  
 CC gene can be used to design therapeutic tools for treating inflammation  
 CC due to stimuli such as heart attacks and stroke, infection, physical  
 CC trauma, UV or ionizing radiation, burns, frostbite or corrosive  
 CC chemicals. The Tim-1 gene and subgenomic polynucleotides can be used in  
 CC gene therapy  
 XX  
 SQ Sequence 111 AA;

Query Match 100.0%; Score 587; DB 2; Length 111;  
 Best Local Similarity 100.0%; Pred. No. 1.6e-59;  
 Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MSLLPRAPPVSMRLAAALLLLALYARVDGSKCKSRKGPRIYSDVKLEMPKY 60  
 Db 1 MSLLPRAPPVSMRLAAALLLLALYARVDGSKCKSRKGPRIYSDVKLEMPKY 60

Qy 61 PHCEKVIITTKSVSRGQEHCLHPKLOSTKRFIKWYNANNEKRVYEE 111  
 Db 61 PHCEKVIITTKSVSRGQEHCLHPKLOSTKRFIKWYNANNEKRVYEE 111

RESULT 3  
 AAB33423  
 ID AAB33423 standard; protein; 111 AA.  
 XX  
 AC AAB33423;  
 XX

DT 29-JAN-2001 (first entry)  
 XX  
 DE Human PRO273 protein UNQ240 SEQ ID NO:46.  
 XX  
 KW Human; immune related disease; diagnosis; antiinflammatory; cardiant;  
 KW dermatological; antiarthritic; antirheumatic; immunosuppressive;  
 KW haemostatic; antithyroid; antidiabetic; nootropic; neuroprotective;  
 KW antianemic; hepatotropic; virucide; antipsoriatic; antiallergic;  
 KW antiasthmatic; systemic lupus erythematosus; rheumatoid arthritis;  
 KW osteoarthritis; spondyloarthropathy; systemic sclerosis; sarcoidosis;  
 KW idiopathic inflammatory myopathy; Sjogren's syndrome; thyroiditis;  
 KW systemic vasculitis; autoimmune haemolytic anaemia; diabetes mellitus;  
 KW autoimmune thrombocytopaenia; immune-mediated renal disease;  
 KW demyelinating disease; hepatobiliary disease; Whipple's disease;  
 KW inflammatory bowel disease; gluten-sensitive enteropathy;  
 KW autoimmune disease; immune-mediated skin disease; allergic disease;  
 KW immunological disease; transplantation associated disease;  
 KW graft rejection; graft-versus-host-disease.  
 XX  
 OS Homo sapiens.  
 OS  
 XX WO200053758-A2.  
 XX  
 PD 14-SEP-2000.  
 XX  
 XX 02-MAR-2000; 2000WO-US005841.  
 XX  
 XX 08-MAR-1999; 99WO-US005028.  
 XX  
 XX 10-MAR-1999; 99US-0123618P.  
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 XX 12-MAR-1999; 99US-0123957P.  
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 XX 23-MAR-1999; 99US-0125775P.  
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 XX 12-APR-1999; 99US-0128849P.  
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 XX 20-APR-1999; 99WO-US008615.  
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 XX 28-APR-1999; 99US-0131445P.  
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 XX 04-MAY-1999; 99US-0132371P.  
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 XX 14-MAY-1999; 99US-0134287P.  
 XX  
 XX 02-JUN-1999; 99WO-US012252.  
 XX  
 XX 23-JUN-1999; 99US-0141037P.  
 XX  
 XX 20-JUL-1999; 99US-0144758P.  
 XX  
 XX 26-JUL-1999; 99US-0145698P.  
 XX  
 XX 28-JUL-1999; 99US-0146222P.  
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 XX 01-SEP-1999; 99WO-US020111.  
 XX  
 XX 08-SEP-1999; 99WO-US020594.  
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 XX 13-SEP-1999; 99WO-US020944.  
 XX  
 XX 15-SEP-1999; 99WO-US021090.  
 XX  
 XX 15-SEP-1999; 99WO-US021547.  
 XX  
 XX 05-OCT-1999; 99WO-US021089.  
 XX  
 XX 23-OCT-1999; 99US-0162506P.  
 XX  
 XX 29-NOV-1999; 99WO-US028214.  
 XX  
 XX 30-NOV-1999; 99WO-US028313.  
 XX  
 XX 01-DEC-1999; 99WO-US028409.  
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 XX 01-DEC-1999; 99WO-US028301.  
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 XX 01-DEC-1999; 99WO-US028634.  
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 XX 02-DEC-1999; 99WO-US028551.  
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 XX 02-DEC-1999; 99WO-US028564.  
 XX  
 XX 16-DEC-1999; 99WO-US030095.  
 XX  
 XX 20-DEC-1999; 99WO-US030999.  
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 XX 30-DEC-1999; 99WO-US031274.  
 XX  
 XX 03-JAN-2000; 2000WO-US000219.  
 XX  
 XX 06-JAN-2000; 2000WO-US000277.  
 XX  
 XX 06-JAN-2000; 2000WO-US000376.  
 XX  
 XX 11-FEB-2000; 2000WO-US003565.  
 XX  
 XX 18-FEB-2000; 2000WO-US004341.  
 XX  
 XX 18-FEB-2000; 2000WO-US004342.  
 XX  
 XX 22-FEB-2000; 2000WO-US004414.  
 XX  
 XX (GETH ) GENENTECH INC.  
 XX  
 XX Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W;  
 XX Kabakoff RC, Lu Y, Pan J, Pennica D, Shelton DL, Smith V;  
 XX Stewart TA, Tumas D, Watanabe CK, Wood WI, Yan M;

```
DR WPI: 2000-572271/53.
DR N-PSDB; AAC58588.
XX
PT Sixty four PRO polypeptides, useful in the diagnosis and treatment of
PT immune related disorders, e.g. systemic lupus erythematosus, rheumatoid
PT arthritis, osteoarthritis, thyroiditis and diabetes mellitus.
XX
PS Claim 33; Fig 20; 309pp; English.
XX
CC The present invention describes sixty four human PRO proteins which can
CC be used in the treatment of immune related diseases. The human PRO
CC proteins, anti-PRO antibodies, agonists and antagonists are useful for
CC treating and diagnosing immune related disorders. The disorders are
CC selected from systemic lupus erythematosus, rheumatoid arthritis,
CC osteoarthritis, juvenile chronic arthritis, spondyloarthropathies,
CC systemic sclerosis, idiopathic inflammatory myopathies, Sjogren's
CC syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic
CC anaemia, autoimmune thrombocytopenia, thyroiditis, diabetes mellitus,
CC immune-mediated renal disease, demyelinating diseases of the central and
CC peripheral nervous systems, hepatobiliary diseases, inflammatory bowel
CC disease, gluten-sensitive enteropathy and Whipple's disease, autoimmune
CC or immune-mediated skin diseases, allergic diseases, immunological
CC diseases of the lung, and transplantation associated diseases including
CC graft rejection and graft-versus-host-disease. AAC58397 to AAC58578
CC represent PCR primers and hybridisation probes used in the isolation of
CC human PRO sequences. AAC58579 to AAC58642 and AAB33414 to AAB33477
CC represent human PRO polynucleotide and protein sequences given in the
CC exemplification of the present invention
XX
SQ Sequence 111 AA;
Query Match 100.0%; Score 587; DB 3; Length 111;
Best Local Similarity 100.0%; Pred. No. 1.6e-59;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MSLPPRAPPVSMRLAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
DB 1 MSLPPRAPPVSMRLAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
QY 61 PHCEKMWIITTSVSRVGRQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111
DB 61 PHCEKMWIITTSVSRVGRQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111
RESULT 4
AAB44295
ID AAB44295 standard; protein; 111 AA.
AC AAB44295;
XX
DT 08-FEB-2001 (first entry)
XX
DE Human PRO273 (UNQ240) protein sequence SEQ ID NO:370.
XX
KW Human; secreted protein; transmembrane protein; PRO; EST; cytostatic;
KW expressed sequence tag; detection; cancer.
XX
OS Homo sapiens.
XX
PN WO200053756-A2.
XX
PD 14-SEP-2000.
XX
PF 18-FEB-2000; 2000WO-US0004341.
XX
PR 08-MAR-1999; 99WO-US0005028.
PR 12-MAR-1999; 99US-0123957P.
PR 29-MAR-1999; 99US-0126773P.
PR 21-APR-1999; 99US-0130232P.
PR 28-APR-1999; 99US-0131445P.
PR 14-MAY-1999; 99US-0134287P.
PR 23-JUN-1999; 99US-0141037P.
PR 26-JUL-1999; 99US-0145698P.
PR
29-OCT-1999; 99US-0162506P.
PR 30-NOV-1999; 99WO-US028313.
PR 02-DEC-1999; 99WO-US028551.
PR 16-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
XX
XX (GETH ) GENENTECH INC.
XX
PI Ahkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Filaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
PI Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;
PI Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
PI Stewart TA, Tumas D, Williams PM, Wood WI;
XX
DR WPI: 2000-611443/58.
DR N-PSDB; AAC78551.
XX
PT Novel PRO polypeptides and polynucleotides used in detection methods, to
PT target bioactive molecules to specific cells, and to modulate cellular
PT activities.
XX
PS Claim 12; Fig 149; 636pp; English.
XX
CC AAC78458 to AAC78599 represent polynucleotide and EST (expressed sequence
CC tag) sequences which encode secreted or transmembrane PRO polypeptides.
CC The PRO polynucleotides and polypeptides have cytostatic activity. The
CC polynucleotides and polypeptides can be used for detecting the presence
CC of PRO polypeptides in samples, for linking bioactive molecules to cells
CC and for modulating biological activities of cells, using the polypeptides
CC for specific targeting. The polypeptide targeting can be used to kill the
CC target cells, e.g. for the treatment of cancers. The polypeptide pairs
CC provide specific targeting of bioactive molecules to cells. AAC78600 to
CC AAC78987 represent PCR primers and probes used in the isolation of the
CC PRO polynucleotide sequences
XX
SQ Sequence 111 AA;
Query Match 100.0%; Score 587; DB 3; Length 111;
Best Local Similarity 100.0%; Pred. No. 1.6e-59;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MSLPPRAPPVSMRLAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
DB 1 MSLPPRAPPVSMRLAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
QY 61 PHCEKMWIITTSVSRVGRQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111
DB 61 PHCEKMWIITTSVSRVGRQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111
RESULT 5
AAB88478
ID AAB88478 standard; protein; 111 AA.
AC AAB88478;
XX
DT 23-MAY-2001 (first entry)
XX
DE Human membrane or secretory protein clone PSEC0212.
XX
KW Human; secretory protein; membrane protein; vaccine; gene therapy;
KW rheumatoid arthritis; diabetes.
XX
OS Homo sapiens.
XX
PN EP1067182-A2.
XX
PD 10-JAN-2001.
```

XX 07-JUL-2000; 2000EP-00114090.  
 XX 08-JUL-1999; 99JP-00194179.  
 PR 11-JAN-2000; 2000JP-00118775.  
 PR 02-MAY-2000; 2000JP-00183766.  
 PR (HELI-) HELIX RES INST.  
 XX  
 XX Ota T, Isogai T, Nishikawa T, Kawai Y, Sugiyama T, Hayashi K;  
 XX WPI: 2001-093989/11.  
 XX N-PSDB; AAF93905.  
 XX  
 XX Nucleic acids encoding secretory proteins/membrane proteins, useful in  
 XX gene therapy or as candidate target molecules in drug development.  
 XX  
 XX Claim 1; SEQ ID NO 324; 609pp + Sequence Listing; English.  
 XX  
 XX This invention relates to nucleic acid sequences AAF93744 - AAF93916  
 CC which encode human secretory or membrane proteins represented by AAB88317  
 CC - AAB88419. Included in the invention are primers AAF93917 - AAF94295 and  
 CC AAF62232 - AAF62235 which are used to isolate the cDNA sequences of the  
 CC invention. The invention also includes methods for the production of  
 CC antibodies directed against the proteins, and cDNA sequences, which can  
 CC be used in vaccines. The polynucleotide sequences can be used in gene  
 CC therapy. The polynucleotide sequences and the proteins they encode may be  
 CC used in the prevention, treatment and diagnosis of diseases associated  
 CC with inappropriate secretory protein/membrane protein expression. The  
 CC nucleic acids and complementary sequences may also be used as DNA probes  
 CC in diagnostic assays (e.g. polymerase chain reactions (PCR)) to detect  
 CC and quantitate the presence of similar nucleic acid sequences in samples.  
 CC They may also be used to study the expression and function of secretory  
 CC proteins/membrane polypeptides and their role in metabolism. The  
 CC polypeptides may be used as antigens in the production of antibodies  
 CC against them and in assays to identify modulators (agonists and  
 CC antagonists) of expression and activity. The antibodies and antagonists  
 CC may also be used as therapeutic agents to down regulate expression and  
 CC activity. The antibodies may also be used as diagnostic agents for  
 CC detecting the presence of the polypeptides in samples (e.g. by enzyme  
 CC linked immunosorbent assay (ELISA)). Examples of diseases which may be  
 CC treated include rheumatoid arthritis and diabetes  
 XX  
 XX Sequence 111 AA;  
 SQ  
 Query Match 100.0%; Score 587; DB 4; Length 111;  
 Best Local Similarity 100.0%; Pred. No. 1.6e-59;  
 Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 1 MSLPRAPPVSMELAAALLLLALYARVDSKCKSRKPKIRYSDVKLEMPKY 60  
 Db 1 MSLPRAPPVSMELAAALLLLALYARVDSKCKSRKPKIRYSDVKLEMPKY 60  
 Qy 61 PHCEKRWIITKSVSRGQEHCLHPKLOSTKRFIKWYNAWNEKRVYEE 111  
 Db 61 PHCEKRWIITKSVSRGQEHCLHPKLOSTKRFIKWYNAWNEKRVYEE 111  
 RESULT 6  
 ABG70798  
 ID ABG70798 standard; protein; 111 AA.  
 XX  
 XX AC ABG70798;  
 XX  
 XX DT 16-DEC-2002 (first entry)  
 XX  
 XX DE Human Bolekine protein.  
 XX  
 XX Human; Bolekine; leukocyte; immune response; chemokine;  
 KW leukocyte trafficking; adhesion; endothelial cell; chemoattractant;  
 KW proliferation; activation; systemic lupus erythematosus; arthritis;  
 KW angiogenesis; systemic sclerosis; autoimmune haemolytic anaemia;  
 KW thyroiditis; diabetes mellitus; renal disease; demyelinating disease;

KW nervous system; polyneuropathy; hepatitis; primary biliary cirrhosis;  
 KW inflammatory bowel disease; autoimmune skin disease; alopecia; psoriasis;  
 KW allergy; asthma; atopic dermatitis; food hypersensitivity; lung disease;  
 KW stroke; encephalitis; multiple sclerosis; agonist; antagonist;  
 KW T-lymphocyte; mononuclear cell; eosinophil; polymorphonuclear neutrophil;  
 KW PMN; pluripotent cell; neuronal cell; MAP2; transgenic; therapeutic;  
 KW gene therapy; tumour; neovascularisation.  
 XX  
 XX Homo sapiens.  
 OS  
 XX  
 XX Key Location/Qualifiers  
 XX Peptide 1..34  
 XX Protein /label= Signal\_peptide  
 XX /label= Mature\_Bolekine  
 XX Modified-site 35..111  
 XX /note= "N-myristoylation site"  
 XX  
 XX US2002119118-A1.  
 XX  
 XX 29-AUG-2002.  
 XX  
 XX 22-MAR-2001; 2001US-00816920.  
 XX  
 XX 03-NOV-1997; 97US-0064249P.  
 XX 27-APR-1998; 98US-0083336P.  
 XX 08-MAR-1999; 99WO-US005028.  
 XX 18-FEB-2000; 2000WO-US004341.  
 XX 02-MAR-2000; 2000WO-US005841.  
 XX (GETH ) GENENTECH INC.  
 XX  
 XX Fong S, Goddard A, Hillan KJ, Roth I, Wood WI;  
 XX WPI: 2002-740172/80.  
 XX N-PSDB; ABS55212.  
 XX  
 XX Novel Bolekine polypeptide useful for identifying agonist and antagonist  
 XX of the polypeptide, and for treating immune related disorder, e.g.  
 XX systemic lupus erythematosus and rheumatoid arthritis in a mammal.  
 XX  
 XX Claim 15; Fig 2; 63pp; English.  
 XX  
 XX The invention discloses a human Bolekine polypeptide, or its fragment.  
 XX Leukocytes play a important role in the immune response and the processes  
 XX by which these cells move to their appropriate destination is critical.  
 XX Chemokines are involved in leukocyte trafficking by mediating the  
 XX expression of adhesion molecules on endothelial cells, producing  
 XX chemoattractants, stimulate proliferation and regulate activation of  
 XX specific cell types. The polynucleotide, polypeptide and antibodies  
 XX raised against the polypeptide are useful for treating an immune related  
 XX disorder in a mammal, such as systemic lupus erythematosus, arthritis,  
 XX angiogenesis, systemic sclerosis, autoimmune haemolytic anaemia,  
 XX thyroiditis, diabetes mellitus, renal disease, demyelinating disease of  
 XX the central or peripheral nervous system, polyneuropathy, hepatitis,  
 XX primary biliary cirrhosis, inflammatory bowel disease, an autoimmune or  
 XX immune-mediated skin disease, alopecia, psoriasis, allergic disease,  
 XX asthma, atopic dermatitis, food hypersensitivity, immunologic disease of  
 XX the lung, stroke, encephalitis and multiple sclerosis. The polypeptides  
 XX and polynucleotides are also useful for identifying a compound (agonist  
 XX or antagonist) that inhibits the expression of activity of Bolekine, for  
 XX diagnosing an immune related disease in a mammal, for modulating the  
 XX proliferation of T-lymphocytes for enhancing the infiltration of  
 XX inflammatory cells (such as mononuclear cells, eosinophils and  
 XX polymorphonuclear neutrophils (PMNs)) into a tissue of a mammal and for  
 XX inducing the differentiation of pluripotent cells into neuronal cells in  
 XX a mammal, where the cells differentiate to a state such that neuronal  
 XX markers (e.g. MAP2) are detected. The polynucleotides are also useful for  
 XX generating transgenic or knock out animals which can be used in the  
 XX development and screening of therapeutically useful agents, in gene  
 XX therapy, chromosome markers and diagnostically for tissue typing and for  
 XX treating tumours by inhibiting the neovascularisation. The sequence  
 XX presented is the human Bolekine protein

```
XX SQ Sequence 111 AA;
Query Match 100.0%; Score 587; DB 5; Length 111;
Best Local Similarity 100.0%; Pred. NO. 1.6e-59;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MSLLPRAPPVSMRLAAALLLLLLLALYARVDGSKCKSRKGPKIRYSDVKLEMKPKY 60
DB 1 MSLLPRAPPVSMRLAAALLLLLLLALYARVDGSKCKSRKGPKIRYSDVKLEMKPKY 60
QY 61 PHCEKQVITTSVSRGQEHCHLPKLOSTRKFIKWYNWNEKRRVYEE 111
DB 61 PHCEKQVITTSVSRGQEHCHLPKLOSTRKFIKWYNWNEKRRVYEE 111

RESULT 7
ABO25241
ID ABO25241 standard; protein; 111 AA.
AC ABO25241;
XX XX
DT 09-SEP-2003 (first entry)
XX XX
DE Novel human secreted and transmembrane protein PRO273.
XX XX
KW Human; secreted and transmembrane protein; PRO; virucide; gene therapy;
KW cell death; growth induction cascade; blood coagulation cascade;
KW viral infection.
XX XX
OS Homo sapiens.
XX XX
PN US2003050239-A1.
XX XX
PD 13-MAR-2003.
XX XX
PF 15-OCT-2001; 2001US-00978191.
XX XX
PR 17-OCT-1997; 97US-0062250P.
PR 03-NOV-1997; 97US-0064249P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066364P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077641P.
PR 11-MAR-1998; 98US-0077649P.
PR 12-MAR-1998; 98US-0077791P.
PR 13-MAR-1998; 98US-0078004P.
PR 17-MAR-1998; 98US-00040220.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078910P.
PR 20-MAR-1998; 98US-0078936P.
PR 20-MAR-1998; 98US-0078939P.
PR 25-MAR-1998; 98US-0079294P.
PR 26-MAR-1998; 98US-0079656P.
PR 27-MAR-1998; 98US-0079663P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079689P.
PR 27-MAR-1998; 98US-0079728P.
PR 27-MAR-1998; 98US-0079786P.
PR 30-MAR-1998; 98US-0079920P.
PR 30-MAR-1998; 98US-0079923P.
PR 31-MAR-1998; 98US-0080105P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080165P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080328P.
PR 01-APR-1998; 98US-0080333P.
PR 01-APR-1998; 98US-0080334P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 08-APR-1998; 98US-0081071P.
PR 09-APR-1998; 98US-0081195P.
PR 09-APR-1998; 98US-0081203P.
PR 09-APR-1998; 98US-0081229P.
PR 15-APR-1998; 98US-0081817P.
PR 15-APR-1998; 98US-0081819P.
PR 15-APR-1998; 98US-0081838P.
PR 15-APR-1998; 98US-0081952P.
PR 15-APR-1998; 98US-0081955P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082700P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 22-APR-1998; 98US-0082804P.
PR 23-APR-1998; 98US-0082796P.
PR 27-APR-1998; 98US-0083336P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083392P.
PR 29-APR-1998; 98US-0083495P.
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PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083500P.
PR 29-APR-1998; 98US-0083545P.
PR 29-APR-1998; 98US-0083554P.
PR 29-APR-1998; 98US-0083558P.
PR 29-APR-1998; 98US-0083559P.
PR 30-APR-1998; 98US-0083742P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 06-MAY-1998; 98US-008441P.
PR 07-MAY-1998; 98US-0084598P.
PR 07-MAY-1998; 98US-0084600P.
PR 07-MAY-1998; 98US-0084627P.
PR 07-MAY-1998; 98US-0084637P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 13-MAY-1998; 98US-0085323P.
PR 13-MAY-1998; 98US-0085338P.
PR 15-MAY-1998; 98US-0085339P.
PR 15-MAY-1998; 98US-0085573P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
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PR 15-MAY-1998; 98US-0085704P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086414P.
PR 22-MAY-1998; 98US-0086430P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087106P.
PR 28-MAY-1998; 98US-0087208P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090863P.
PR 01-JUL-1998; 98US-0091359P.
PR 30-JUL-1998; 98US-0094651P.
PR 11-SEP-1998; 98US-0100038P.
PR 07-OCT-1998; 98US-00168978.
PR 07-OCT-1998; 98WO-US021141.
PR 02-NOV-1998; 98US-00184216.
PR 06-NOV-1998; 98US-00187368.
PR 20-NOV-1998; 98US-0109304P.
PR 20-NOV-1998; 98WO-US024855.
PR 07-DEC-1998; 98US-00202054.
PR 22-DEC-1998; 98US-00218517.
PR 23-DEC-1998; 98US-0113296P.
PR 23-DEC-1998; 98US-0113621P.
PR 05-JAN-1999; 99WO-US000106.
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05-MAR-1999; 99US-00254465.  
08-MAR-1999; 99WO-US005038.  
10-MAR-1999; 99US-00265686.  
10-MAR-1999; 99WO-US005190.  
12-MAR-1999; 99US-00267213.  
12-MAR-1999; 99US-0123957P.  
12-MAR-1999; 99US-0126773P.  
12-MAR-1999; 99US-00284291.  
12-APR-1999; 99US-0130232P.  
21-APR-1999; 99US-0131022P.  
26-APR-1999; 99US-0131445P.  
28-APR-1999; 99US-00311832.  
14-MAY-1999; 99US-0134287P.  
14-MAY-1999; 99WO-US010733.  
14-MAY-1999; 99WO-US012252.  
02-JUN-1999; 99US-0139557P.  
16-JUN-1999; 99US-0141037P.  
23-JUN-1999; 99US-0142680P.  
07-JUL-1999; 99US-0145698P.  
26-JUL-1999; 99US-0146222P.  
28-JUL-1999; 99US-00380137.  
25-AUG-1999; 99US-00380138.  
25-AUG-1999; 99US-00380142.  
29-OCT-1999; 99US-0162506P.  
30-NOV-1999; 99WO-US028313.  
02-DEC-1999; 99WO-US028551.  
02-DEC-1999; 99WO-US028565.  
16-DEC-1999; 99WO-US030095.  
30-DEC-1999; 99WO-US0311243.  
30-DEC-1999; 99WO-US031274.  
05-JAN-2000; 2000WO-US000219.  
06-JAN-2000; 2000WO-US000277.  
06-JAN-2000; 2000WO-US000376.  
11-FEB-2000; 2000WO-US003565.  
18-FEB-2000; 2000WO-US004341.  
24-FEB-2000; 2000WO-US005004.  
02-MAR-2000; 2000WO-US005841.  
10-MAR-2000; 2000WO-US006319.  
21-MAR-2000; 2000WO-US007532.  
30-MAR-2000; 2000WO-US008439.  
17-MAY-2000; 2000WO-US013705.  
22-MAY-2000; 2000WO-US014042.  
30-MAY-2000; 2000WO-US014941.  
02-JUN-2000; 2000WO-US015264.  
28-JUL-2000; 2000WO-US020710.  
24-AUG-2000; 2000WO-US023328.  
08-NOV-2000; 2000US-00709238.  
27-NOV-2000; 2000US-00723749.  
01-DEC-2000; 2000WO-US032678.  
20-DEC-2000; 2000US-00747259.  
20-DEC-2000; 2000WO-US034956.  
28-FEB-2001; 2001WO-US006520.  
22-MAR-2001; 2001US-00816744.  
22-MAR-2001; 2001US-00816920.  
22-MAR-2001; 2001WO-US009552.  
10-MAY-2001; 2001US-00854208.  
10-MAY-2001; 2001WO-US017092.  
25-MAY-2001; 2001US-00872035.  
01-JUN-2001; 2001US-00872035.  
05-JUN-2001; 2001WO-US017800.  
14-JUN-2001; 2001US-00874503.  
19-JUN-2001; 2001US-00882636.  
20-JUN-2001; 2001US-00886342.  
29-JUN-2001; 2001WO-US019692.  
09-JUL-2001; 2001WO-US021066.  
30-JUL-2001; 2001WO-US021735.  
30-JUL-2001; 2001US-00918585.  
(GETH ) GENENTECH INC.  
Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;

Query Match 100.0%; Score 587; DB 6; Length 111;  
Best Local Similarity 100.0%; Pred. No. 1.6e-59;  
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MSLPRRAPPVSMELLALALLLALYATRVGSKCKSKGPKIRYSDVKLEMKPKY 60  
Db 1 MSLPRRAPPVSMELLALALLLALYATRVGSKCKSKGPKIRYSDVKLEMKPKY 60  
Qy 61 PHCEKRWIITTSVSRVGOEHLHPKQLQSTKRFIKWYNWNEKRRVYEE 111  
Db 61 PHCEKRWIITTSVSRVGOEHLHPKQLQSTKRFIKWYNWNEKRRVYEE 111  
RESULT 8  
ABU72247  
ID ABU72247 standard; protein; 111 AA.  
XX AC ABU72247;  
XX DT 16-JUN-2003 (first entry)  
XX DB Novel human secreted and transmembrane protein PRO273.  
XX KW Human; secreted and transmembrane protein; PRO; antiinflammatory;  
XX KW antiarteriosclerotic; cardiant; anti-infertility; anti-HIV; cytostatic;  
XX KW antidiabetic; gene therapy; inflammatory disease; organ failure;  
XX KW atherosclerosis; cardiac injury; infertility; birth defect;  
XX KW premature aging; AIDS; cancer; diabetic complication; chromosome mapping;  
XX KW gene mapping; pharmaceutical; diagnostic; biosensor; bioreactor;  
XX KW tissue typing.  
XX OS Homo sapiens.  
XX PN US2002192706-A1.  
XX PD 19-DEC-2002.  
XX 24-OCT-2001; 2001US-00999832.  
PR 17-OCT-1997; 97US-0062250P.  
PR 03-NOV-1997; 97US-0064249P.  
PR 13-NOV-1997; 97US-0065311P.  
PR 21-NOV-1997; 97US-0066364P.  
PR 10-MAR-1998; 98US-0077450P.  
PR 11-MAR-1998; 98US-0077632P.  
PR 11-MAR-1998; 98US-0077641P.  
PR 11-MAR-1998; 98US-0077649P.  
PR 12-MAR-1998; 98US-0077791P.  
PR 13-MAR-1998; 98US-0078004P.  
PR 17-MAR-1998; 98US-00040220.  
PR 20-MAR-1998; 98US-0078886P.  
PR 20-MAR-1998; 98US-0078910P.  
PR 20-MAR-1998; 98US-0078936P.  
PR 20-MAR-1998; 98US-0078939P.  
PR 25-MAR-1998; 98US-0079294P.  
PR 26-MAR-1998; 98US-0079656P.  
PR 27-MAR-1998; 98US-0079663P.  
PR 27-MAR-1998; 98US-0079664P.  
PR 27-MAR-1998; 98US-0079689P.  
PR 27-MAR-1998; 98US-0079728P.  
PR 27-MAR-1998; 98US-0079786P.  
PR 30-MAR-1998; 98US-0079920P.  
PR 30-MAR-1998; 98US-0079923P.  
PR 31-MAR-1998; 98US-0080105P.  
PR 31-MAR-1998; 98US-0080107P.  
PR 31-MAR-1998; 98US-0080165P.  
PR 31-MAR-1998; 98US-0080194P.  
PR 01-APR-1998; 98US-0080327P.  
PR 01-APR-1998; 98US-0080328P.  
PR 01-APR-1998; 98US-0080333P.  
PR 01-APR-1998; 98US-0080334P.  
PR 08-APR-1998; 98US-0081049P.  
PR 08-APR-1998; 98US-0081070P.



(GETH ) GENENTECH INC.

Fong S, Goddard A, Hillan KJ, Roth I, Wood WI;

WPI; 2003-018887/01.

N-PSDB; ABV72423.

New Bolekine polypeptides and encoding nucleic acids, useful for treating an immune related disorder such as systemic lupus erythematosus, rheumatoid arthritis, psoriasis, asthma, allergic rhinitis and atopic dermatitis.

Claim 15; Fig 2; 96pp; English.

The present sequence represents a human Bolekine polypeptide. Bolekine polypeptides are active stimulators of the proliferation of T-lymphocytes. Bolekine polypeptides and polynucleotides are useful for treating an immune related disorder e.g. systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis, a spondyloarthropathy, systemic sclerosis, an idiopathic inflammatory myopathy, Sjogren's syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic anaemia, autoimmune thrombocytopenia, thyroiditis, diabetes mellitus, immune-mediated renal disease, a demyelinating disease of the central or peripheral nervous system, an idiopathic demyelinating polyneuropathy, Guillen-Barre syndrome, a chronic inflammatory demyelinating polyneuropathy, a hepatobiliary disease, infectious or autoimmune chronic active hepatitis, primary biliary cirrhosis, granulomatous hepatitis, sclerosing cholangitis, inflammatory bowel disease, gluten-sensitive enteropathy, Whipple's disease, an autoimmune or immune-mediated skin disease, a bullous skin disease, erythema multiforme, contact dermatitis, psoriasis, an allergic disease, asthma, allergic rhinitis, atopic dermatitis, food hypersensitivity, urticaria, an immunologic disease of the lung, eosinophilic pneumonia, idiopathic pulmonary fibrosis, hypersensitivity pneumonitis, a transplantation associated disease, graft rejection or graft-versus-host disease. The Bolekine polypeptides and encoding nucleic acid molecules can also be used as hybridization probes, for generation of transgenic animal, gene therapy, as molecular weight markers, chromosome identification and tissue typing

Sequence 111 AA;

Query Match 100.0%; Score 587; DB 6; Length 111;

Best Local Similarity 100.0%; Pred. No. 1.6e-59;

Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MSLPRAPPVSMELAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60

Db 1 MSLPRAPPVSMELAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60

Qy 61 PHCEKMWIITKSVSRGQEHCLHPKIQSTKRFIKWYNWNEKRRVYEE 111

Db 61 PHCEKMWIITKSVSRGQEHCLHPKIQSTKRFIKWYNWNEKRRVYEE 111

RESULT 10

ABU84927

ID ABU84927 standard; protein: 111 AA.

XX ABU84927;

AC ABU84927;

DT 12-AUG-2003 (first entry)

XX Human secreted and transmembrane PRO polypeptide #3.

XX Human; thrombolytic agent; interferon; interleukin; cytokine;  
 KW erythropoietin; colony stimulating factor; cancer; colorectal carcinoma;  
 KW apoptosis related condition; AIDS; amyotrophic lateral sclerosis;  
 KW inflammatory disease; asthma; atherosclerosis; neurodegenerative disease;  
 KW gastrointestinal disorder; Alzheimer's disease; Parkinson's disease;  
 KW hypertension; myocardial ischaemia; kidney disease; carcinogenesis;  
 KW glomerulonephritis; lung disease; pulmonary hypertension; preeclampsia;  
 KW bronchial asthma; gastric ulcer; renal failure; cardiovascular disease;

inflammatory bowel disease; reproductive disorder; premature labour.

Homo sapiens.

US2002177553-A1.

XX 28-NOV-2002.

XX 15-OCT-2001; 2001US-00978192.

PR 17-OCT-1997; 97US-0062250P.

PR 03-NOV-1997; 97US-0064249P.

PR 13-NOV-1997; 97US-0085311P.

PR 21-NOV-1997; 97US-0066364P.

PR 10-MAR-1998; 98US-0077450P.

PR 11-MAR-1998; 98US-0077632P.

PR 11-MAR-1998; 98US-0077641P.

PR 11-MAR-1998; 98US-0077649P.

PR 12-MAR-1998; 98US-0077791P.

PR 13-MAR-1998; 98US-0078004P.

PR 17-MAR-1998; 98US-00040220.

PR 20-MAR-1998; 98US-0078886P.

PR 20-MAR-1998; 98US-0078910P.

PR 20-MAR-1998; 98US-0078936P.

PR 20-MAR-1998; 98US-0078939P.

PR 25-MAR-1998; 98US-0079294P.

PR 26-MAR-1998; 98US-0079656P.

PR 27-MAR-1998; 98US-0079663P.

PR 27-MAR-1998; 98US-0079664P.

PR 27-MAR-1998; 98US-0079689P.

PR 27-MAR-1998; 98US-0079728P.

PR 27-MAR-1998; 98US-0079786P.

PR 30-MAR-1998; 98US-0079920P.

PR 30-MAR-1998; 98US-0079923P.

PR 26-JUN-1998; 98US-00105413.

PR 07-OCT-1998; 98US-00168378.

PR 07-OCT-1998; 98WO-US021141.

PR 02-NOV-1998; 98US-00184216.

PR 06-NOV-1998; 98US-00187368.

PR 20-NOV-1998; 98WO-US024855.

PR 07-DEC-1998; 98US-00202054.

PR 22-DEC-1998; 98US-00218517.

PR 05-JAN-1999; 99WO-US000106.

PR 05-MAR-1999; 99US-00254465.

PR 08-MAR-1999; 99WO-US005028.

PR 10-MAR-1999; 99US-00265686.

PR 10-MAR-1999; 99WO-US005190.

PR 12-MAR-1999; 99US-00267213.

PR 12-APR-1999; 99US-00284291.

PR 14-MAY-1999; 99US-00311832.

PR 14-MAY-1999; 99WO-US010733.

PR 02-JUN-1999; 99WO-US012252.

PR 25-AUG-1999; 99US-00380137.

PR 25-AUG-1999; 99US-00380138.

PR 25-AUG-1999; 99WO-US0380138.

PR 30-NOV-1999; 99WO-US028313.

PR 02-DEC-1999; 99WO-US028551.

PR 02-DEC-1999; 99WO-US028565.

PR 16-DEC-1999; 99WO-US030095.

PR 30-DEC-1999; 99WO-US031243.

PR 30-DEC-1999; 99WO-US031274.

PR 05-JAN-2000; 2000WO-US000219.

PR 06-JAN-2000; 2000WO-US000277.

PR 06-JAN-2000; 2000WO-US000376.

PR 11-FEB-2000; 2000WO-US003565.

PR 18-FEB-2000; 2000WO-US004341.

PR 24-FEB-2000; 2000WO-US005004.

PR 02-MAR-2000; 2000WO-US005841.

PR 10-MAR-2000; 2000WO-US006319.

PR 21-MAR-2000; 2000WO-US007532.

PR 30-MAR-2000; 2000WO-US008439.

PR 17-MAY-2000; 2000WO-US013705.

PR 22-MAY-2000; 2000WO-US014042.

PR	30-MAY-2000;	2000WO-US014941.	
PR	02-JUN-2000;	2000WO-US015264.	
PR	28-JUL-2000;	2000WO-US020710.	
PR	24-AUG-2000;	2000WO-US023328.	
PR	08-NOV-2000;	2000US-00709238.	
PR	27-NOV-2000;	2000US-00723749.	
PR	01-DEC-2000;	2000WO-US032678.	
PR	20-DEC-2000;	2000US-00747259.	
PR	20-DEC-2000;	2000WO-US034956.	
PR	28-FEB-2001;	2001WO-US006520.	
PR	22-MAR-2001;	2001US-00816744.	
PR	22-MAR-2001;	2001US-00816920.	
PR	22-MAR-2001;	2001WO-US009552.	
PR	10-MAY-2001;	2001US-00854208.	
PR	10-MAY-2001;	2001US-00854280.	
PR	25-MAY-2001;	2001WO-US017092.	
PR	01-JUN-2001;	2001US-00872035.	
PR	01-JUN-2001;	2001WO-US017800.	
PR	05-JUN-2001;	2001US-00874503.	
PR	14-JUN-2001;	2001US-00882636.	
PR	19-JUN-2001;	2001US-00886342.	
PR	20-JUN-2001;	2001WO-US019692.	
PR	29-JUN-2001;	2001WO-US021066.	
PR	09-JUL-2001;	2001WO-US021735.	
PR	30-JUL-2001;	2001US-00918585.	
XX			
PA	(GETH ) GENENTECH INC.		
XX			
PI	Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;		
PI	Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen MB;		
PI	Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;		
PI	Kijavini LJ, Kuo SS, Napier MA, Pan J, Paoni NP, Roy MA, Shelton DL;		
PI	Stewart TA, Tumas D, Williams PM, Wood WI;		
XX			
DR	WPI; 2003-328495/31.		
XX	N-PSDB; ACA71937.		
XX			
PT	New isolated PRO polypeptides e.g. PRO213, PRO274 and PRO300, for use as		
PT	pharmaceuticals, diagnostics, biosensors and bioeffectors, for identifying		
PT	modulators of receptor-ligand interactions.		
XX			
PS	Claim 12; SEQ ID NO 370; 55pp; English.		
XX			
CC	The invention relates to an isolated secreted and transmembrane		
CC	polypeptide, designated as PRO polypeptide. The PRO polypeptide is useful		
CC	in PRO polypeptide detection methods. The PRO polypeptide is useful for		
CC	linking a bioactive molecule to a cell. The PRO polypeptide or an		
CC	antibody against it is useful for modulating a biological activity of a		
CC	cell. The PRO polypeptide is useful in industrial applications including		
CC	pharmaceuticals, diagnostics, biosensors and bioeffectors. The PRO		
CC	polypeptide is also useful as a thrombolytic agent, interferon,		
CC	interleukin, erythropoietin, colony stimulating factor and other		
CC	cytokines. The PRO polypeptide is useful for treating diseases such as		
CC	cancer e.g. colorectal carcinoma; apoptosis related conditions e.g. AIDS,		
CC	amyotrophic lateral sclerosis; inflammatory disease e.g. asthma,		
CC	atherosclerosis; neurodegenerative disease e.g. Alzheimer's disease,		
CC	Parkinson's disease; cardiovascular disease e.g. hypertension and		
CC	myocardial ischaemia; kidney disease e.g. renal failure and		
CC	glomerulonephritis; lung disease e.g. pulmonary hypertension, bronchial		
CC	asthma; gastrointestinal disorders e.g. gastric ulcer and inflammatory		
CC	bowel disease; reproductive disorders e.g. premature labour and		
CC	preeclampsia; carcinogenesis. The present sequence represents the amino		
CC	acid sequence of a PRO polypeptide of the invention. Note: The sequence		
CC	data for this patent did not form part of the printed specification but		
CC	was obtained in electronic format directly from USPTO at		
CC	seqdata.uspto.gov/sequence.html?docID=20020177553		
XX			
SQ	Sequence 111 AA;		
	Query Match 100.0%; Score 587; DB 6; Length 111;		
	Best Local Similarity 100.0%; Pred. No. 1.6e-59;		
	Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		

QY	1	MSLLPRAPPVSMRLIAAALLLLLLLALYTARVDGSKCKSGPKIRYSDVKLEMPKY	60
Db	1	MSLLPRAPPVSMRLIAAALLLLLLLALYTARVDGSKCKSGPKIRYSDVKLEMPKY	60
QY	61	PHCEEKWVIITTKSVSRVRCQEHCLHPKLOSTKRFIKWYNWNEKRRVYEE	111
Db	61	PHCEEKWVIITTKSVSRVRCQEHCLHPKLOSTKRFIKWYNWNEKRRVYEE	111
RESULT 11			
ABU61125			
ID	ABU61125	standard; protein; 111 AA.	
XX	XX		
AC	ABU61125;		
XX	XX		
DT	08-MAY-2003	(first entry)	
XX	XX		
DE	Human PRO273	polypeptide.	
XX	XX		
KW	Human; PRO polypeptide; secreted and transmembrane protein;		
KW	immune disorder; diabetes; hyper-insulinaemia; hypo-insulinaemia;		
KW	cardiac insufficiency; nervous system disorder; kidney disorder;		
KW	bone disorder; cartilage disorder; arthritis; tumour; wound healing;		
KW	genetic disorder; cytostatic; antidiabetic; antiinflammatory;		
KW	antiarthritic; anti-tumour; vulnary; antianaemic; dermatological;		
KW	cardiant.		
XX	XX		
OS	Homo sapiens.		
XX	XX		
PN	US2002169284-A1.		
XX	XX		
PD	14-NOV-2002.		
XX	XX		
PF	16-OCT-2001; 2001US-00978697.		
XX	XX		
PR	26-MAY-1981;	81US-00267213.	
PR	17-OCT-1997;	97US-0062250P.	
PR	03-NOV-1997;	97US-0064249P.	
PR	13-NOV-1997;	97US-0065311P.	
PR	21-NOV-1997;	97US-0066364P.	
PR	10-MAR-1998;	98US-0077450P.	
PR	11-MAR-1998;	98US-0077632P.	
PR	11-MAR-1998;	98US-0077641P.	
PR	11-MAR-1998;	98US-0077649P.	
PR	12-MAR-1998;	98US-0077791P.	
PR	13-MAR-1998;	98US-0078004P.	
PR	17-MAR-1998;	98US-00040220.	
PR	20-MAR-1998;	98US-0078886P.	
PR	20-MAR-1998;	98US-0078910P.	
PR	20-MAR-1998;	98US-0078936P.	
PR	20-MAR-1998;	98US-0078939P.	
PR	25-MAR-1998;	98US-0079294P.	
PR	26-MAR-1998;	98US-0079656P.	
PR	27-MAR-1998;	98US-0079663P.	
PR	27-MAR-1998;	98US-0079664P.	
PR	27-MAR-1998;	98US-0079689P.	
PR	27-MAR-1998;	98US-0079728P.	
PR	27-MAR-1998;	98US-0079786P.	
PR	30-MAR-1998;	98US-0079920P.	
PR	30-MAR-1998;	98US-0079923P.	
PR	26-JUN-1998;	98US-00105413.	
PR	07-OCT-1998;	98US-00168978.	
PR	07-OCT-1998;	98WO-US021141.	
PR	02-NOV-1998;	98US-00184216.	
PR	06-NOV-1998;	98US-00187368.	
PR	20-NOV-1998;	98WO-US024855.	
PR	07-DEC-1998;	98US-00202054.	
PR	22-DEC-1998;	98US-00218517.	
PR	05-JAN-1999;	99WO-US000106.	
PR	05-MAR-1999;	99US-00254465.	
PR	08-MAR-1999;	99WO-US005028.	
PR	10-MAR-1999;	99US-00265686.	
PR	10-MAR-1999;	99WO-US005190.	



PR 12-APR-1999; 99US-00284291.  
 PR 14-MAY-1999; 99US-00311832.  
 PR 14-MAY-1999; 99WO-US010733.  
 PR 02-JUN-1999; 99WO-US012252.  
 PR 25-AUG-1999; 99US-00380137.  
 PR 25-AUG-1999; 99US-00380138.  
 PR 25-AUG-1999; 99US-00380142.  
 PR 30-NOV-1999; 99WO-US028313.  
 PR 02-DEC-1999; 99WO-US028551.  
 PR 16-DEC-1999; 99WO-US030095.  
 PR 30-DEC-1999; 99WO-US031243.  
 PR 30-DEC-1999; 99WO-US031274.  
 PR 05-JAN-2000; 2000WO-US000219.  
 PR 06-JAN-2000; 2000WO-US000277.  
 PR 06-JAN-2000; 2000WO-US00376.  
 PR 11-FEB-2000; 2000WO-US003565.  
 PR 18-FEB-2000; 2000WO-US004341.  
 PR 24-FEB-2000; 2000WO-US005004.  
 PR 02-MAR-2000; 2000WO-US005841.  
 PR 10-MAR-2000; 2000WO-US006319.  
 PR 21-MAR-2000; 2000WO-US007532.  
 PR 30-MAR-2000; 2000WO-US008439.  
 PR 17-MAY-2000; 2000WO-US013705.  
 PR 22-MAY-2000; 2000WO-US014042.  
 PR 30-MAY-2000; 2000WO-US014941.  
 PR 02-JUN-2000; 2000WO-US015264.  
 PR 28-JUL-2000; 2000WO-US020710.  
 PR 24-AUG-2000; 2000WO-US023328.  
 PR 08-NOV-2000; 2000US-00709238.  
 PR 27-NOV-2000; 2000US-00723749.  
 PR 01-DEC-2000; 2000WO-US032678.  
 PR 20-DEC-2000; 2000US-00747259.  
 PR 20-DEC-2000; 2000WO-US034956.  
 PR 28-FEB-2001; 2001WO-US006520.  
 PR 22-MAR-2001; 2001US-00816744.  
 PR 22-MAR-2001; 2001US-00816920.  
 PR 22-MAR-2001; 2001WO-US009552.  
 PR 10-MAY-2001; 2001US-00854208.  
 PR 10-MAY-2001; 2001US-00854280.  
 PR 25-MAY-2001; 2001WO-US017092.  
 PR 01-JUN-2001; 2001US-00872035.  
 PR 01-JUN-2001; 2001WO-US017800.  
 PR 05-JUN-2001; 2001US-00874503.  
 PR 14-JUN-2001; 2001US-00882636.  
 PR 19-JUN-2001; 2001US-00886342.  
 PR 20-JUN-2001; 2001WO-US019692.  
 PR 29-JUN-2001; 2001WO-US021066.  
 PR 09-JUL-2001; 2001WO-US021735.  
 PR 30-JUL-2001; 2001US-00918585.  
 (GETH ) GENENTECH INC.  
 PI Ashkenazi A, Baker KP, Botstein D, Desnoyers L, Eaton D;  
 PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen MR;  
 PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;  
 PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
 PI Stewart TA, Tumas D, Williams PM, Wood WI;  
 XX WPI; 2003-288163/28.  
 DR N-PSDB; ABX92577.  
 XX  
 XX Novel secreted and transmembrane polypeptides and polynucleotides  
 PT encoding them useful for treating cancer, kidney diseases, bone,  
 PT cartilage disorders and immune deficiencies.  
 XX  
 XX Claim 12; Fig 149; 459pp; English.  
 PS  
 CC The present invention relates to the isolation of novel human PRO  
 CC polypeptides, and the polynucleotide sequences encoding them. The PRO  
 CC polypeptides are secreted and transmembrane proteins. The PRO  
 CC polypeptides are useful for detecting other PRO polypeptides, for linking  
 CC bioactive molecules to cells expressing PRO polypeptides, for modulating

CC biological activities of cells expressing PRO polypeptides, and for for  
 CC identifying agonists or antagonists. The bioactive molecule maybe a  
 CC toxin, radiolabel or antibody, and causes apoptosis or death of the cell.  
 CC The PRO polypeptides are useful for treating immune disorders, diabetes  
 CC or hyper- or hypo-insulinaemia, cardiac inefficiency, nervous system  
 CC disorders, kidney disorders, bone and cartilage disorders or arthritis,  
 CC tumours, and wound healing. The polynucleotide sequences encoding PRO  
 CC polypeptides are useful as hybridisation probes, in chromosome and gene  
 CC mapping, in the generation of antisense RNA and DNA, in the preparation  
 CC of PRO polypeptides, for generating transgenic animals or knockout  
 CC animals, for the genetic analysis of individuals with genetic disorders,  
 CC and in gene therapy. ABU61071-ABU61164 represent the human PRO  
 CC polypeptides of the invention. Note: The sequence data for this patent  
 CC was obtained in electronic format directly from the USPTO web site at  
 CC seqdata.uspto.gov/psipsdIDentry.html  
 XX  
 SQ Sequence 111 AA;  
 Query Match 100.0%; Score 587; DB 6; Length 111;  
 Best Local Similarity 100.0%; Pred. No. 1.6e-59;  
 Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 1 MSLLPREAPPVSMRLAAALLLLLLLALYARVDGSKCKSPKPKIRYSDVKLEMPKY 60  
 Db 1 MSLLPREAPPVSMRLAAALLLLLLLALYARVDGSKCKSPKPKIRYSDVKLEMPKY 60  
 Qy 61 PHCEKMWIITKSVSRVYRGQEHCLHPKLOSTKRFIKWYNAWNEKRRVYEE 111  
 Db 61 PHCEKMWIITKSVSRVYRGQEHCLHPKLOSTKRFIKWYNAWNEKRRVYEE 111  
 RESULT 12  
 ABU80394  
 ID ABU80394 standard; protein; 111 AA.  
 AC ABU80394;  
 XX  
 XX 24-JUN-2003 (first entry)  
 XX Human secreted/transmembrane protein PRO273.  
 XX  
 KW Human; secreted protein; transmembrane protein; PRO; malignancy; cancer;  
 KW ovarian cancer; colorectal cancer; sarcoma; leukaemia; lymphoma;  
 KW inflammatory disease; necrosis; atherosclerosis; infertility;  
 KW premature aging; psoriasis; inflammatory disease; renal disease;  
 KW arthritis; immune-mediated alopecia; stroke; encephalitis; hepatitis;  
 KW multiple sclerosis; gene therapy.  
 XX  
 OS Homo sapiens.  
 XX  
 XX US2003004102-A1.  
 XX  
 XX 02-JAN-2003.  
 XX  
 XX 15-OCT-2001; 2001US-00978189.  
 XX  
 PR 17-OCT-1997; 97US-0062250P.  
 PR 03-NOV-1997; 97US-0064249P.  
 PR 13-NOV-1997; 97US-0065311P.  
 PR 21-NOV-1997; 97US-0066384P.  
 PR 10-MAR-1998; 98US-0077450P.  
 PR 11-MAR-1998; 98US-0077632P.  
 PR 11-MAR-1998; 98US-0077641P.  
 PR 11-MAR-1998; 98US-0077649P.  
 PR 12-MAR-1998; 98US-0077791P.  
 PR 13-MAR-1998; 98US-0078004P.  
 PR 17-MAR-1998; 98US-00040220.  
 PR 20-MAR-1998; 98US-0078886P.  
 PR 20-MAR-1998; 98US-0078910P.  
 PR 20-MAR-1998; 98US-0078936P.  
 PR 20-MAR-1998; 98US-0078939P.  
 PR 25-MAR-1998; 98US-0079294P.  
 PR 26-MAR-1998; 98US-0079656P.



XX Novel human secreted and transmembrane protein PRO273.  
DE Human; secreted and transmembrane protein; PRO; tissue typing;  
XX Chromosome identification; vaccine; cancer; retinal disorder;  
KW sports-related joint disorder; osteoarthritis; rheumatoid arthritis;  
KW cardiac healing; obesity; diabetes; hearing loss;  
KW cardiac insufficiency disorder; kidney disorder; nervous system disorder;  
KW haemoglobin associated disorder.  
XX Homo sapiens.  
XX US2003050241-A1.  
XX 13-MAR-2003.  
XX 16-OCT-2001; 2001US-00978564.  
XX 17-OCT-1997; 97US-0062250P.  
PR 03-NOV-1997; 97US-0064249P.  
PR 13-NOV-1997; 97US-0065311P.  
PR 21-NOV-1997; 97US-0066364P.  
PR 10-MAR-1998; 98US-0077450P.  
PR 11-MAR-1998; 98US-0077632P.  
PR 11-MAR-1998; 98US-0077641P.  
PR 11-MAR-1998; 98US-0077649P.  
PR 12-MAR-1998; 98US-0077791P.  
PR 13-MAR-1998; 98US-0078004P.  
PR 20-MAR-1998; 98US-0078886P.  
PR 20-MAR-1998; 98US-0078910P.  
PR 20-MAR-1998; 98US-0078936P.  
PR 20-MAR-1998; 98US-0078939P.  
PR 25-MAR-1998; 98US-0079294P.  
PR 26-MAR-1998; 98US-0079656P.  
PR 27-MAR-1998; 98US-0079663P.  
PR 27-MAR-1998; 98US-0079664P.  
PR 27-MAR-1998; 98US-0079689P.  
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PR 30-MAR-1998; 98US-0079786P.  
PR 30-MAR-1998; 98US-0079920P.  
PR 31-MAR-1998; 98US-0079923P.  
PR 31-MAR-1998; 98US-0080105P.  
PR 31-MAR-1998; 98US-0080107P.  
PR 31-MAR-1998; 98US-0080165P.  
PR 31-MAR-1998; 98US-0080194P.  
PR 01-APR-1998; 98US-0080327P.  
PR 01-APR-1998; 98US-0080328P.  
PR 01-APR-1998; 98US-0080333P.  
PR 01-APR-1998; 98US-0080334P.  
PR 08-APR-1998; 98US-0081049P.  
PR 08-APR-1998; 98US-0081070P.  
PR 08-APR-1998; 98US-0081071P.  
PR 09-APR-1998; 98US-0081195P.  
PR 09-APR-1998; 98US-0081203P.  
PR 09-APR-1998; 98US-0081229P.  
PR 15-APR-1998; 98US-0081817P.  
PR 15-APR-1998; 98US-0081819P.  
PR 15-APR-1998; 98US-0081838P.  
PR 15-APR-1998; 98US-0081952P.  
PR 15-APR-1998; 98US-0081955P.  
PR 21-APR-1998; 98US-0082568P.  
PR 21-APR-1998; 98US-0082569P.  
PR 22-APR-1998; 98US-0082700P.  
PR 22-APR-1998; 98US-0082704P.  
PR 22-APR-1998; 98US-0082787P.  
PR 22-APR-1998; 98US-0082804P.  
PR 27-APR-1998; 98US-0083336P.  
PR 27-APR-1998; 98US-0083396P.  
PR 28-APR-1998; 98US-0083322P.  
PR 29-APR-1998; 98US-0083392P.  
PR 29-APR-1998; 98US-0083455P.  
PR 29-APR-1998; 98US-0083496P.  
PR 29-APR-1998; 98US-0083499P.  
PR 29-APR-1998; 98US-0083500P.  
PR 29-APR-1998; 98US-0083545P.  
PR 29-APR-1998; 98US-0083554P.  
PR 29-APR-1998; 98US-0083558P.  
PR 29-APR-1998; 98US-0083559P.  
PR 30-APR-1998; 98US-0083742P.  
PR 05-MAY-1998; 98US-0084366P.  
PR 06-MAY-1998; 98US-0084414P.  
PR 06-MAY-1998; 98US-0084441P.  
PR 07-MAY-1998; 98US-0084598P.  
PR 07-MAY-1998; 98US-0084600P.  
PR 07-MAY-1998; 98US-0084627P.  
PR 07-MAY-1998; 98US-0084637P.  
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PR 13-MAY-1998; 98US-0085323P.  
PR 13-MAY-1998; 98US-0085338P.  
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PR 15-MAY-1998; 98US-0085573P.  
PR 15-MAY-1998; 98US-0085579P.  
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PR 15-MAY-1998; 98US-0085689P.  
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PR 18-MAY-1998; 98US-0086023P.  
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PR 26-JUN-1998; 98US-0090863P.  
PR 26-JUN-1998; 98US-0091010P.  
PR 01-JUL-1998; 98US-0091359P.  
PR 30-JUL-1998; 98US-0094651P.  
PR 11-SEP-1998; 98US-0100038P.  
PR 07-OCT-1998; 98WO-US021141.  
PR 20-NOV-1998; 98US-0109304P.  
PR 20-NOV-1998; 98WO-US024855.  
PR 22-DEC-1998; 98US-0113296P.  
PR 22-DEC-1998; 98US-0113621P.  
PR 05-JAN-1999; 98WO-US000106.  
PR 08-MAR-1999; 98WO-US005028.  
PR 10-MAR-1999; 98WO-US005190.  
PR 12-MAR-1999; 98US-0123957P.  
PR 12-MAR-1999; 98US-0126773P.  
PR 21-APR-1999; 98US-0130232P.  
PR 26-APR-1999; 98US-0131022P.  
PR 28-APR-1999; 98US-0131445P.  
PR 14-MAY-1999; 98US-0134287P.  
PR 14-MAY-1999; 98WO-US010733.  
PR 02-JUN-1999; 98WO-US012252.  
PR 16-JUN-1999; 98US-0139557P.  
PR 23-JUN-1999; 98US-0141037P.  
PR 07-JUL-1999; 98US-0142680P.  
PR 26-JUL-1999; 98US-0145698P.  
PR 28-JUL-1999; 98US-0146222P.  
PR 29-OCT-1999; 98US-0162506P.  
PR 30-NOV-1999; 98WO-US028313.  
PR 02-DEC-1999; 98WO-US028551.  
PR 16-DEC-1999; 98WO-US028565.  
PR 30-DEC-1999; 98WO-US031243.  
PR 30-DEC-1999; 98WO-US031274.  
PR 05-JAN-2000; 2000WO-US000219.  
PR 06-JAN-2000; 2000WO-US000277.  
PR 11-FEB-2000; 2000WO-US003565.  
PR 18-FEB-2000; 2000WO-US004341.

PR 24-FEB-2000; 2000WO-US005004.  
PR 02-MAR-2000; 2000WO-US005841.  
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PR 17-MAY-2000; 2000WO-US013705.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 30-MAY-2000; 2000WO-US014941.  
PR 02-JUN-2000; 2000WO-US015264.  
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PR 01-JUN-2001; 2001WO-US017800.  
PR 20-JUN-2001; 2001WO-US019692.  
PR 29-JUN-2001; 2001WO-US021066.  
PR 09-JUL-2001; 2001WO-US021735.  
PR 30-JUL-2001; 2001US-00918585.  
XX  
PA (GETH ) GENENTECH INC.  
XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;  
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;  
PI KJjavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
PI Stewart TA, Tumas D, Williams PM, Wood WI;  
XX WPI; 2003-521814/49.  
DR N-PSDB; ADA4908.  
XX  
XX New isolated PRO polypeptides for example extracellular, secreted and  
PT membrane bound proteins, useful for modulating the biological activities  
PT of cells and for treating, for example diabetes, cancer, rheumatoid  
PT arthritis, and hearing loss.  
XX  
PS Claim 12; Fig 149; 461pp; English.  
XX  
CC The invention describes an isolated secreted and transmembrane (PRO)  
CC polypeptide (I). PRO337 polypeptide is useful for detecting PRO4993  
CC polypeptide in a sample, and vice versa. PRO725, PRO700 and PRO739 are  
CC useful for detecting PRO1559 polypeptide in a sample, and PRO1559 is  
CC useful for detecting PRO725, PRO700 and PRO739 in a sample. PRO4993 is  
CC useful for linking a bioactive molecule to a cell expressing a PRO337  
CC polypeptide, and PRO337 is useful for linking a bioactive molecule to a  
CC cell expressing a PRO4993 polypeptide. PRO1559 is useful for linking a  
CC bioactive molecule to a cell expressing a PRO735, PRO700 and PRO739  
Query Match 100.0%; Score 587; DB 6; Length 111;  
Best Local Similarity 100.0%; Pred. No. 1.6e-59;  
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RESULT 14  
ID ABO19696  
XX ABO19696 standard; protein; 111 AA.  
XX ABO19696;  
AC ABO19696;  
XX  
DT 08-SEP-2003 (first entry)  
XX  
XX Novel human secreted and transmembrane protein PRO273.  
DE  
XX

KW Human; secreted and transmembrane protein; PRO; cell death; neuropathy;  
KW peripheral neuropathy; diabetic peripheral neuropathy;  
KW AIDS-associated neuropathy; Charcot-Marie-Tooth disease;  
KW Refsum's disease; Abetalipoproteinaemia; Tangier disease;  
KW Krabbe's disease; Metachromatic leukodystrophy; Fabry's disease;  
KW Dejerine-Sottas syndrome; chromosome mapping; gene therapy.  
XX  
OS Homo sapiens.  
XX  
PN US2003050240-A1.  
XX  
XX 13-MAR-2003.  
XX  
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PR 29-APR-1998; 98US-0083545P.  
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PR 01-JUL-1998; 98US-0091359P.
PR 30-JUL-1998; 98US-0094651P.
PR 11-SEP-1998; 98US-0100038P.
PR 07-OCT-1998; 98WO-US021141.
PR 20-NOV-1998; 98US-0109304P.
PR 20-NOV-1998; 98WO-US024855.
PR 22-DEC-1998; 98US-0113296P.
PR 23-DEC-1998; 98US-0113621P.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 12-MAR-1999; 99US-0123957P.
PR 29-MAR-1999; 99US-0126773P.
PR 21-APR-1999; 99US-0130232P.
PR 26-APR-1999; 99US-0131022P.
PR 28-APR-1999; 99US-0131445P.
PR 14-MAY-1999; 99US-0134287P.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 16-JUN-1999; 99US-0139557P.
PR 23-JUN-1999; 99US-0141037P.
PR 07-JUL-1999; 99US-0142680P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0145222P.
PR 29-OCT-1999; 99US-0162506P.
PR 30-NOV-1999; 99WO-US028313.
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PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
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PR 10-MAR-2000; 2000WO-US006319.

PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
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PR 24-AUG-2000; 2000WO-US023328.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001WO-US009552.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 09-JUN-2001; 2001WO-US021066.
PR 29-JUL-2001; 2001WO-US021735.
PR 30-JUN-2001; 2001US-00918585.
XX
XX (GETH ) GENENTECH INC.
PA
XX
XX
XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Filyarov E, Fong S, Gao W, Gerber H, Gerritsen ME;
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AJ, Hillan KJ;
PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
PI Stewart TA, Tumas D, Williams PM, Wood WL;
XX
XX WPI; 2003-503575/47.
DR N-PSDB; ACD29919.
XX
XX
XX Novel secreted and transmembrane polypeptide for modulating biological
PT activity of cell expressing the polypeptide, identifying agonists or
FT antagonists of polypeptide, and as molecular weight markers.
XX
XX Claim 12; Fig 149; 459pp; English.
XX
XX The invention describes an isolated, secreted and transmembrane
CC polypeptide, termed PRO polypeptide (I). (I) is useful for detecting
CC PRO4993, PRO337, PRO1559, PRO725, PRO700 or PRO739 polypeptide, and for
CC linking a bioactive molecule to a cell expressing the above polypeptides.
CC The bioactive molecule is a toxin, radiolabel or an antibody and causes
CC cell death. (I) is useful as therapeutic agent, in medical and industrial
CC applications e.g. for treating neuropathy, especially peripheral
CC neuropathy, diabetic peripheral neuropathy, AIDS-associated neuropathy,
CC Charcot-Marie-Tooth disease, Refsum's disease, Abetalipoproteinaemia,
CC Tangier disease, Krabbe's disease, Metachromatic leukodystrophy, Fabry's
CC
Query Match 100.0%; Score 587; DB 6; Length 111;
Best Local Similarity 100.0%; Pred. No. 1.6e-59;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MSLLPRAPPVSMRLAAALLLLLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
DB 1 MSLLPRAPPVSMRLAAALLLLLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
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RESULT 15
ADA12570
ID ADA12570 standard; protein; 111 AA.
XX
XX ADA12570;
XX
XX 06-NOV-2003 (first entry)
XX
XX Human secreted/transmembrane polypeptide PRO273.
XX
XX inflammatory disease; organ failure; atherosclerosis; cardiac injury;
XX infertility; birth defect; premature aging; AIDS; cancer;
XX diabetic complication; tissue typing; human.
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XX OS Homo sapiens.  
XX PN US2003055216-A1.  
XX PD 20-MAR-2003.  
XX PF 17-OCT-2001; 2001US-00978824.  
XX 21-MAY-1996; 96US-0018049P.  
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PR 03-NOV-1997; 97US-0064249P.  
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PR 21-NOV-1997; 97US-0066364P.  
PR 10-MAR-1998; 98US-0077450P.  
PR 11-MAR-1998; 98US-0077632P.  
PR 11-MAR-1998; 98US-0077641P.  
PR 11-MAR-1998; 98US-0077649P.  
PR 12-MAR-1998; 98US-0077791P.  
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PR 17-MAR-1998; 98US-0004020P.  
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PR 28-APR-1999; 99US-00311832.  
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PR 16-DEC-1999; 99WO-US030095.  
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 PR 05-JAN-2000; 2000WO-US000219.  
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 PA (GETH ) GENENTECH INC.

PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
 PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;

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RESULT 16

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 ID ABO19587 standard; protein; 111 AA.

XX ABO19587;

XX 27-AUG-2003 (first entry)

XX Novel human secreted and transmembrane polypeptide #55.

XX Human; secreted and transmembrane protein; PRO; viral infection;  
 XX tumour growth; retinal disorder; injury; sight loss;  
 KW retinitis pigmentosa; age-related macular degeneration;  
 KW sport-related joint problem; articular cartilage defect; osteoarthritis;  
 KW rheumatoid arthritis; wound healing; obesity; diabetes; insulinemia;  
 KW kidney disorder; mesangial cell function; Berger disease; nephropathy;

KW celiac disease; dermatitis; Crohn disease; neuropathy;  
 KW cardiac insufficiency disorder; peripheral neuropathy;  
 KW diabetic peripheral neuropathy; autonomic neuropathy;  
 KW reduced motility of the gastrointestinal tract;  
 KW atony of the urinary bladder; post polio syndrome; Krabbe's disease;  
 KW Charcot-Marie-Tooth disease; Fabry's disease; Tangier disease;  
 KW Refsum's disease.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US2003049633-A1.  
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 XX 13-MAR-2003.  
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PR 26-JUL-1999; 99US-0145698P.  
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PR 30-DEC-1999; 99WO-US031243.  
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PR 05-JAN-2000; 2000WO-US000219.  
PR 06-JAN-2000; 2000WO-US000277.  
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PR 11-FEB-2000; 2000WO-US003565.  
PR 18-FEB-2000; 2000WO-US004341.  
PR 24-FEB-2000; 2000WO-US005004.  
PR 02-MAR-2000; 2000WO-US005841.  
PR 10-MAR-2000; 2000WO-US006319.  
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PR 22-MAY-2000; 2000WO-US014042.  
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PR 27-NOV-2000; 2000US-00723749.  
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RESULT 17

ADB73876

ID ADB73876 standard; protein; 111 AA.

AC ADB73876;

DT 04-DEC-2003 (first entry)

XX Human PRO polypeptide #55.

Human; PRO polypeptide; secreted protein; transmembrane protein;  
cell death; neuropathy; neuropathy related disease;  
Charcot-Marie-Tooth disorder; Refsum's disease; Krabbe's disease;  
chromosome mapping; gene mapping; genetic disorder; septic shock;  
antibacterial; immunosuppressive; neuroprotective.

OS Homo sapiens.

XX US2003045462-A1.

PN



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PR 30-DEC-1999; 99US-0031243. 98US-0087208P.  
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PR 06-JAN-2000; 2000US-0000277. 98US-0087208P.  
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PR 03-NOV-1997; 97US-0064249P.  
PR 13-NOV-1997; 97US-0065311P.  
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PR 16-JUN-1999; 99US-0139557P.  
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PR 18-FEB-2000; 2000US-0004341.  
PR 24-FEB-2000; 2000US-0005004.  
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PR	17-MAY-2000;	200WO-US013705.	PR	11-MAR-1998;	98US-0077632P.
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PR	28-FEB-2001;	200WO-US006520.	PR	26-MAR-1998;	98US-0079656P.
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PR	29-JUN-2001;	2001WO-US021066.	PR	01-APR-1998;	98US-0080333P.
PR	09-JUL-2001;	2001WO-US021735.	PR	01-APR-1998;	98US-0080334P.
PR	30-JUL-2001;	2001US-00918585.	PR	08-APR-1998;	98US-0081049P.
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			PR	15-APR-1998;	98US-0081952P.
			PR	15-APR-1998;	98US-0081955P.
			PR	21-APR-1998;	98US-0082568P.
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Oy	61	PHCEKVIITKSVRYRGOEHLHPKLOSTKRFIKWYNAWNEKRYEE 111	PR	22-APR-1998;	98US-0082700P.
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			PR	22-APR-1998;	98US-0082797P.
			PR	22-APR-1998;	98US-0082804P.
			PR	23-APR-1998;	98US-0082796P.
			PR	27-APR-1998;	98US-0083336P.
			PR	28-APR-1998;	98US-0083322P.
			PR	29-APR-1998;	98US-0083332P.
			PR	29-APR-1998;	98US-0083495P.
			PR	29-APR-1998;	98US-0083496P.
			PR	29-APR-1998;	98US-0083499P.
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			PR	30-APR-1998;	98US-0083742P.
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			PR	06-MAY-1998;	98US-0084414P.
			PR	06-MAY-1998;	98US-0084441P.
			PR	07-MAY-1998;	98US-0084598P.
			PR	07-MAY-1998;	98US-0084600P.
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			PR	07-MAY-1998;	98US-0084639P.
			PR	07-MAY-1998;	98US-0084640P.
			PR	07-MAY-1998;	98US-0084643P.
			PR	13-MAY-1998;	98US-0085323P.
			PR	13-MAY-1998;	98US-0085338P.
			PR	15-MAY-1998;	98US-0085339P.
			PR	15-MAY-1998;	98US-0085573P.
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RESULT 20  
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DT 18-DEC-2003 (first entry)  
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XX opthalmological; antiarthritic; osteopathic; antirheumatic; vulneryary;  
XX auditory; tumour growth; retinal disorder; sports-related joint problem;  
XX articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
XX wound healing; hearing loss.  
XX  
XX Homo sapiens.  
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XX US2003049684-A1.  
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XX 13-MAR-2003.  
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PR 21-NOV-1997; 97US-0066364P.

PR	15-MAY-1998;	98US-0085582P.	PR	02-JUN-2000;	2000WO-US015264.
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PR	15-MAY-1998;	98US-0085704P.	PR	27-NOV-2000;	2000US-00723749.
PR	18-MAY-1998;	98US-0086023P.	PR	01-DEC-2000;	2000WO-US032678.
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PR	22-MAY-1998;	98US-0086414P.	PR	20-DEC-2000;	2000WO-US034956.
PR	22-MAY-1998;	98US-0086430P.	PR	28-FEB-2001;	2001WO-US006520.
PR	22-MAY-1998;	98US-0086486P.	PR	22-MAR-2001;	2001US-00816744.
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PR	30-JUL-1998;	98US-0094651P.	PR	05-JUN-2001;	2001US-00874503.
PR	11-SEP-1998;	98US-0100038P.	PR	14-JUN-2001;	2001US-00882636.
PR	07-OCT-1998;	98US-00116897P.	PR	19-JUN-2001;	2001US-00886342.
PR	07-OCT-1998;	98WO-US021141.	PR	20-JUN-2001;	2001WO-US019692.
PR	02-NOV-1998;	98US-00184216.	PR	29-JUN-2001;	2001WO-US021066.
PR	06-NOV-1998;	98US-00187368.	PR	09-JUL-2001;	2001WO-US021735.
PR	20-NOV-1998;	98US-0109304P.	PR	30-JUL-2001;	2001US-00918585.
PR	07-DEC-1998;	98WO-US024855.	XX		
PR	20-DEC-1998;	98US-00202054.	PA	(GETH ) GENENTECH INC.	
PR	22-DEC-1998;	98US-00218517.	XX		
PR	22-DEC-1998;	98US-0113296P.	PI	Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;	
PR	23-DEC-1998;	98US-0113621P.		Query Match 100.0%; Score 587; DB 7; Length 111;	
PR	05-JAN-1999;	99WO-US000106.		Best Local Similarity 100.0%; Pred. No. 1.6e-59;	
PR	05-MAR-1999;	99US-00254465.		Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
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PR	12-APR-1999;	99US-00284291.	Db	61 PHECKWIIITKTSVSRVGOEHLHPKLOSTKRFIKWYNANNEKRRVYEE 111	
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PR	26-APR-1999;	99US-0131022P.			
PR	28-APR-1999;	99US-0131445P.			
PR	14-MAY-1999;	99US-00311832.			
PR	14-MAY-1999;	99US-0134287P.	RESULT 21		
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PR	16-JUN-1999;	99US-0139557P.	AC		
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PR	28-JUL-1999;	99US-0146222P.	XX		
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PR	25-AUG-1999;	99US-00380138.	XX		
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PR	23-OCT-1999;	99US-0162506P.	KW	ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;	
PR	30-NOV-1999;	99WO-US028313.	KW	auditory; tumour growth; retinal disorder; sports-related joint problem;	
PR	02-DEC-1999;	99WO-US028551.	KW	articular cartilage defects; osteoarthritis; rheumatoid arthritis;	
PR	16-DEC-1999;	99WO-US028565.	XX	wound healing; hearing loss.	
PR	30-DEC				

PR	15-MAY-1998;	98US-0085582P.	PR	02-JUN-2000;	2000WO-US015264.
PR	15-MAY-1998;	98US-0085689P.	PR	28-JUL-2000;	2000WO-US020710.
PR	15-MAY-1998;	98US-0085697P.	PR	24-AUG-2000;	2000WO-US023328.
PR	15-MAY-1998;	98US-0085700P.	PR	08-NOV-2000;	2000US-00709238.
PR	15-MAY-1998;	98US-0085704P.	PR	27-NOV-2000;	2000US-00723749.
PR	18-MAY-1998;	98US-0086023P.	PR	01-DEC-2000;	2000WO-US032678.
PR	22-MAY-1998;	98US-0086392P.	PR	20-DEC-2000;	2000US-00747259.
PR	22-MAY-1998;	98US-0086414P.	PR	20-DEC-2000;	2000WO-US034956.
PR	22-MAY-1998;	98US-0086430P.	PR	28-FEB-2001;	2001WO-US006520.
PR	22-MAY-1998;	98US-0086486P.	PR	22-MAR-2001;	2001US-00816744.
PR	28-MAY-1998;	98US-0087098P.	PR	22-MAR-2001;	2001US-00816920.
PR	28-MAY-1998;	98US-0087106P.	PR	22-MAR-2001;	2001WO-US009552.
PR	28-MAY-1998;	98US-0087208P.	PR	10-MAY-2001;	2001US-00854208.
PR	26-JUN-1998;	98US-00105413.	PR	10-MAY-2001;	2001US-00854280.
PR	26-JUN-1998;	98US-0090863P.	PR	25-MAY-2001;	2001WO-US017092.
PR	26-JUN-1998;	98US-0091010P.	PR	01-JUN-2001;	2001US-00872035.
PR	01-JUL-1998;	98US-0091359P.	PR	01-JUN-2001;	2001WO-US017800.
PR	30-JUL-1998;	98US-0094651P.	PR	05-JUN-2001;	2001US-00874503.
PR	11-SEP-1998;	98US-0100038P.	PR	14-JUN-2001;	2001US-00882636.
PR	07-OCT-1998;	98US-00116897P.	PR	19-JUN-2001;	2001US-00886342.
PR	07-OCT-1998;	98WO-US021141.	PR	20-JUN-2001;	2001WO-US019692.
PR	02-NOV-1998;	98US-00184216.	PR	29-JUN-2001;	2001WO-US021066.
PR	06-NOV-1998;	98US-00187368.	PR	09-JUL-2001;	2001WO-US021735.
PR	20-NOV-1998;	98US-0109304P.	PR	30-JUL-2001;	2001US-00918585.
PR	07-DEC-1998;	98WO-US024855.	XX		
PR	20-DEC-1998;	98US-00202054.	PA	(GETH ) GENENTECH INC.	
PR	22-DEC-1998;	98US-00218517.	XX		
PR	22-DEC-1998;	98US-0113296P.	PI	Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;	
PR	23-DEC-1998;	98US-0113621P.		Query Match 100.0%; Score 587; DB 7; Length 111;	
PR	05-JAN-1999;	99WO-US000106.		Best Local Similarity 100.0%; Pred. No. 1.6e-59;	
PR	05-MAR-1999;	99US-00254465.		Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
PR	08-MAR-1999;	99WO-US005028.	Qy	1 MSLLPRAPPVSMRLAALALLLALYARVDGSKCKSRKPKIRYSDVKKLEMPKY 60	
PR	10-MAR-1999;	99US-00265686.	Db	1 MSLLPRAPPVSMRLAALALLLALYARVDGSKCKSRKPKIRYSDVKKLEMPKY 60	
PR	10-MAR-1999;	99WO-US005190.	Qy	61 PHECKWIIITKTSVSRVGOEHLHPKLOSTKRFIKWYNANNEKRRVYEE 111	
PR	12-MAR-1999;	99US-00267213.	Db	61 PHECKWIIITKTSVSRVGOEHLHPKLOSTKRFIKWYNANNEKRRVYEE 111	
PR	12-MAR-1999;	99US-0123957P.			
PR	23-MAR-1999;	99US-0126773P.	RESULT 21		
PR	12-APR-1999;	99US-00284291.	ADC63742		
PR	21-APR-1999;	99US-0130232P.	ID	ADC63742 standard; protein; 111 AA.	
PR	26-APR-1999;	99US-0131022P.	AC		
PR	28-APR-1999;	99US-0131445P.	XX	ADC63742;	
PR	14-MAY-1999;	99US-00311832.	DT	18-DEC-2003 (first entry)	
PR	14-MAY-1999;	99US-0134287P.	XX		
PR	02-JUN-1999;	99WO-US010733.	DE	Human secreted/transmembrane protein, PRO273.	
PR	16-JUN-1999;	99US-0139557P.	XX		
PR	23-JUN-1999;	99US-0141037P.	KW	Human; secreted protein; transmembrane protein; PRO; cytosstatic;	
PR	07-JUL-1999;	99US-0142680P.	KW	ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;	
PR	26-JUL-1999;	99US-0145698P.	KW	auditory; tumour growth; retinal disorder; sports-related joint problem;	
PR	28-JUL-1999;	99US-0146222P.	KW	articular cartilage defects; osteoarthritis; rheumatoid arthritis;	
PR	25-AUG-1999;	99US-00380137.	XX	wound healing; hearing loss.	
PR	25-AUG-1999;	99US-00380138.	OS	Homo sapiens.	
PR	23-OCT-1999;	99US-00380142.	XX		
PR	30-NOV-1999;	99US-0162506P.	PN	US2003054405-A1.	
PR	02-DEC-1999;	99WO-US028513.	XX		
PR	16-DEC-1999;	99WO-US028565.	PD	20-MAR-2003.	
PR	30-DEC-1999;	99WO-US030095.	XX		
PR	30-DEC-1999;	99WO-US031243.	XX	24-O	



PR 24-AUG-2000; 2000WO-US023328.  
PR 08-NOV-2000; 2000US-00709238.  
PR 27-NOV-2000; 2000US-00723749.  
PR 01-DEC-2000; 2000WO-US032878.  
PR 20-DEC-2000; 2000US-00747259.  
PR 20-DEC-2000; 2000WO-US034956.  
PR 28-FEB-2001; 2001WO-US006520.  
PR 22-MAR-2001; 2001US-00816744.  
PR 22-MAR-2001; 2001US-00816920.  
PR 22-MAR-2001; 2001WO-US0099552.  
PR 10-MAY-2001; 2001US-00854208.  
PR 10-MAY-2001; 2001WO-US017092.  
PR 25-MAY-2001; 2001US-00872035.  
PR 01-JUN-2001; 2001US-00872035.  
PR 01-JUN-2001; 2001WO-US017800.  
PR 05-JUN-2001; 2001US-00874503.  
PR 14-JUN-2001; 2001US-00882636.  
PR 19-JUN-2001; 2001US-00886342.  
PR 20-JUN-2001; 2001WO-US019692.  
PR 29-JUN-2001; 2001WO-US021066.  
PR 09-JUL-2001; 2001WO-US021735.  
PR 30-JUL-2001; 2001US-00918585.  
XX  
XX (GETH ) GENENTECH INC.  
XX

Query Match 100.0%; Score 587; DB 7; Length 111;  
Best Local Similarity 100.0%; Pred. No. 1.6e-59;  
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 1 MSLPPRAPPVSMRLAAALLLLLLALYTRVDGSKCKSGPKIRYSDVKLEMKPKY 60  
Db 1 MSLPPRAPPVSMRLAAALLLLLLALYTRVDGSKCKSGPKIRYSDVKLEMKPKY 60  
  
Qy 61 PHCEEKVITTSVRSYRQGEHCLHPKLOSTKRFIKWYNWNEKRRVYEE 111  
Db 61 PHCEEKVITTSVRSYRQGEHCLHPKLOSTKRFIKWYNWNEKRRVYEE 111

RESULT 22  
ADC66842  
ID ADC66842 standard; protein; 111 AA.  
XX  
AC ADC66842;  
XX  
DT 18-DEC-2003 (first entry)  
XX  
DE Human secreted/transmembrane protein, PRO273.  
XX  
KW vulnery; virucide; neuroprotective; cytostatic; gene therapy;  
KW tumour cell proliferation inhibitor;  
KW secreted and transmembrane protein; PRO; viral infection; wound healing;  
KW tissue growth; muscle generation; muscle regeneration;  
KW amyotrophic lateral sclerosis; neuropathy; AIDS-associated neuropathy;  
KW diabetic peripheral neuropathy; chromosome identification; antagonist;  
KW tissue typing; immunohistochemical staining.  
XX  
OS Homo sapiens.  
XX  
PN US2003060406-A1.  
XX  
PD 27-MAR-2003.  
XX  
XX 30-JUL-2001; 2001US-00918585.  
XX  
XX 17-OCT-1997; 97US-0062250P.  
PR 03-NOV-1997; 97US-0064249P.  
PR 13-NOV-1997; 97US-0065311P.  
PR 21-NOV-1997; 97US-0066364P.  
PR 10-MAR-1998; 98US-0077450P.  
PR 11-MAR-1998; 98US-0077632P.  
PR 11-MAR-1998; 98US-0077641P.  
PR 11-MAR-1998; 98US-0077649P.

PR 12-MAR-1998; 98US-0077791P.  
PR 13-MAR-1998; 98US-0078004P.  
PR 17-MAR-1998; 98US-00040220.  
PR 20-MAR-1998; 98US-0078866P.  
PR 20-MAR-1998; 98US-0078910P.  
PR 20-MAR-1998; 98US-0078936P.  
PR 20-MAR-1998; 98US-0078939P.  
PR 25-MAR-1998; 98US-0079294P.  
PR 26-MAR-1998; 98US-0079656P.  
PR 27-MAR-1998; 98US-0079663P.  
PR 27-MAR-1998; 98US-0079664P.  
PR 27-MAR-1998; 98US-0079689P.  
PR 27-MAR-1998; 98US-0079728P.  
PR 27-MAR-1998; 98US-0079786P.  
PR 30-MAR-1998; 98US-0079920P.  
PR 30-MAR-1998; 98US-0079923P.  
PR 31-MAR-1998; 98US-0080105P.  
PR 26-JUN-1998; 98US-00105413.  
PR 07-OCT-1998; 98US-00168978.  
PR 07-OCT-1998; 98WO-US021141.  
PR 02-NOV-1998; 98US-00184216.  
PR 06-NOV-1998; 98US-00187368.  
PR 07-DEC-1998; 98US-00202054.  
PR 22-DEC-1998; 98US-00218517.  
PR 05-JAN-1999; 99WO-US000106.  
PR 05-MAR-1999; 99US-00254465.  
PR 08-MAR-1999; 99WO-US005028.  
PR 10-MAR-1999; 99US-00265686.  
PR 10-MAR-1999; 99WO-US005190.  
PR 12-MAR-1999; 99US-00267213.  
PR 12-APR-1999; 99US-00284291.  
PR 14-MAY-1999; 99US-00311832.  
PR 14-MAY-1999; 99WO-US010733.  
PR 02-JUN-1999; 99WO-US012252.  
PR 25-AUG-1999; 99US-00380137.  
PR 25-AUG-1999; 99US-00380138.  
PR 25-AUG-1999; 99US-00380142.  
PR 30-NOV-1999; 99WO-US028313.  
PR 02-DEC-1999; 99WO-US028551.  
PR 02-DEC-1999; 99WO-US028565.  
PR 16-DEC-1999; 99WO-US030095.  
PR 30-DEC-1999; 99WO-US031243.  
PR 30-DEC-1999; 99WO-US031274.  
PR 05-JAN-2000; 2000WO-US000219.  
PR 06-JAN-2000; 2000WO-US000277.  
PR 11-FEB-2000; 2000WO-US000376.  
PR 11-FEB-2000; 2000WO-US003565.  
PR 18-FEB-2000; 2000WO-US004341.  
PR 24-FEB-2000; 2000WO-US005004.  
PR 02-MAR-2000; 2000WO-US005841.  
PR 10-MAR-2000; 2000WO-US006319.  
PR 21-MAR-2000; 2000WO-US007532.  
PR 30-MAR-2000; 2000WO-US008439.  
PR 17-MAY-2000; 2000WO-US013705.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 30-MAY-2000; 2000WO-US014941.  
PR 02-JUN-2000; 2000WO-US015264.  
PR 28-JUL-2000; 2000WO-US020710.  
PR 24-AUG-2000; 2000WO-US023328.  
PR 08-NOV-2000; 2000US-00709238.  
PR 27-NOV-2000; 2000US-00723749.  
PR 01-DEC-2000; 2000WO-US032678.  
PR 20-DEC-2000; 2000US-00747259.  
PR 28-FEB-2001; 2001WO-US034956.  
PR 22-MAR-2001; 2001US-00816744.  
PR 22-MAR-2001; 2001US-00816920.  
PR 10-MAY-2001; 2001US-00854208.  
PR 10-MAY-2001; 2001US-00854280.  
PR 25-MAY-2001; 2001WO-US017092.  
PR 01-JUN-2001; 2001US-00872035.



PR 01-JUN-2001; 2001WO-US017800.  
 PR 05-JUN-2001; 2001US-00874503.  
 PR 14-JUN-2001; 2001US-00882636.  
 PR 19-JUN-2001; 2001US-00886342.  
 PR 20-JUN-2001; 2001WO-US019692.  
 PR 29-JUN-2001; 2001WO-US021066.  
 PR 09-JUL-2001; 2001WO-US021735.  
 XX (GETH ) GENENTECH INC.  
 XX  
 XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
 PI Perara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;  
 PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;  
 PI Kijavini ID, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
 PI Stewart TA, Tumas D, Williams PM, Wood WI;  
 XX  
 DR WPI: 2003-596568/56.  
 DR N-PSDB; ADC68966.  
 XX  
 PT Novel secreted and transmembrane polypeptides and polynucleotides  
 PT encoding them, useful for treating wound healing, tissue growth and  
 PT muscle generation and regeneration, amyotrophic lateral sclerosis or  
 PT neuropathy.  
 XX  
 PS Claim 12; SEQ ID NO 370; 472pp; English.  
 XX  
 CC The invention describes an isolated secreted and transmembrane PRO  
 CC polypeptide (I). PRO polypeptide such as PRO213, PRO700, PRO320 or PRO615  
 CC is useful in biotechnological and medical research, as well as in various  
 CC industrial applications. PRO polypeptide such as PRO300, PRO866, PRO703,  
 CC PRO708, PRO320, PRO351, PRO352, PRO381, PRO615, PRO772, PRO853,  
 CC PRO860 or PRO846 is useful for therapeutic purposes. PRO363 is useful  
 CC therapeutically in vivo for lessening the effects of viral infection.  
 CC PRO200 is useful for the treatment of wound healing, tissue growth and  
 CC muscle generation and regeneration. PRO337 is useful for treating  
 CC amyotrophic lateral sclerosis, neuropathy, AIDS-associated neuropathy or  
 CC diabetic peripheral neuropathy. A polynucleotide (II) encoding (I) is  
 CC useful for generating transgenic animals or knockout animals which are  
 CC useful in the development and screening of therapeutically useful  
 CC reagents, as probes for generating a pool of sequences for identifying  
 CC related PRO coding sequences, and to construct hybridisation probes for  
 CC mapping the gene which encodes the PRO and for the genetic analysis of  
 CC individuals with genetic disorders, for recombinantly expressing (I) and  
 CC for chromosome identification. (I) is useful as molecular marker for  
 CC protein electrophoresis purposes, and as therapeutic agents. (I) is also  
 CC useful for screening compounds to identify those that mimic the PRO  
 CC polypeptide (agonists) or prevent the effect of the PRO polypeptide  
 CC (antagonists). (I) and (II) are useful for tissue typing. PRO antibodies  
 CC are useful for immunohistochemical staining and/or assay of sample  
 CC fluids. Anti-PRO antibodies are useful in diagnostic assays for PRO e.g.  
 CC detecting its expression in specific cells, tissues or serum, and for  
 CC affinity purification of PRO from recombinant cell culture or natural  
 CC sources. This is the amino acid sequence of a human secreted and  
 CC transmembrane PRO protein.  
 XX  
 SQ Sequence 111 AA;  
 Query Match 100.0%; Score 587; DB 7; Length 111;  
 Best Local Similarity 100.0%; Pred. No. 1.6e-59;  
 Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 1 MSLPRAPPVSMRLAAALLLLALYARVDGSKCKSRKPKIRYSDVKLEMPKY 60  
 Db 1 MSLPRAPPVSMRLAAALLLLALYARVDGSKCKSRKPKIRYSDVKLEMPKY 60  
 Qy 61 PHCEKMWIITKSVSRVGEHCLHPKLOSTKRFIKWYNAWNEKRRVYEE 111  
 Db 61 PHCEKMWIITKSVSRVGEHCLHPKLOSTKRFIKWYNAWNEKRRVYEE 111  
 RESULT 23  
 ADC68966  
 ID ADC68966 standard; protein; 111 AA.

XX  
 AC ADC68966;  
 XX  
 DT 18-DEC-2003 (first entry)  
 XX  
 DE Human secreted/transmembrane protein, PRO273.  
 XX  
 KW Human; secreted protein; transmembrane protein; PRO; cytostatic;  
 KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;  
 KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
 KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
 KW wound healing; hearing loss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US2003064407-A1.  
 XX  
 PD 03-APR-2003.  
 XX  
 XX 24-OCT-2001; 2001US-00999834.  
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 PR 17-OCT-1997; 97US-0062250P.  
 PR 03-NOV-1997; 97US-0064249P.  
 PR 13-NOV-1997; 97US-0065311P.  
 PR 21-NOV-1997; 97US-0066364P.  
 PR 10-MAR-1998; 98US-0077450P.  
 PR 11-MAR-1998; 98US-0077632P.  
 PR 11-MAR-1998; 98US-0077641P.  
 PR 11-MAR-1998; 98US-0077649P.  
 PR 12-MAR-1998; 98US-0077791P.  
 PR 13-MAR-1998; 98US-0078004P.  
 PR 17-MAR-1998; 98US-0004022O.  
 PR 20-MAR-1998; 98US-0078886P.  
 PR 20-MAR-1998; 98US-0078910P.  
 PR 20-MAR-1998; 98US-0078936P.  
 PR 20-MAR-1998; 98US-0078939P.  
 PR 25-MAR-1998; 98US-0079294P.  
 PR 26-MAR-1998; 98US-0079656P.  
 PR 27-MAR-1998; 98US-0079663P.  
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 PR 27-MAR-1998; 98US-0079786P.  
 PR 30-MAR-1998; 98US-0079920P.  
 PR 30-MAR-1998; 98US-0079923P.  
 PR 31-MAR-1998; 98US-0080105P.  
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 PR 31-MAR-1998; 98US-0080194P.  
 PR 01-APR-1998; 98US-0080327P.  
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 PR 08-APR-1998; 98US-0081049P.  
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 PR 09-APR-1998; 98US-0081195P.  
 PR 09-APR-1998; 98US-0081203P.  
 PR 09-APR-1998; 98US-0081229P.  
 PR 15-APR-1998; 98US-0081817P.  
 PR 15-APR-1998; 98US-0081819P.  
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 PR 15-APR-1998; 98US-0081952P.  
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 PR 21-APR-1998; 98US-0082568P.  
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 PR 22-APR-1998; 98US-0082700P.  
 PR 22-APR-1998; 98US-0082704P.  
 PR 22-APR-1998; 98US-0082797P.  
 PR 22-APR-1998; 98US-0082804P.  
 PR 23-APR-1998; 98US-0082796P.  
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 PR 28-APR-1998; 98US-0083322P.

PR 29-APR-1998; 98US-00833392P.  
PR 29-APR-1998; 98US-00834395P.  
PR 29-APR-1998; 98US-0083496P.  
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PR 29-APR-1998; 98US-0083599P.  
PR 30-APR-1998; 98US-0083742P.  
PR 05-MAY-1998; 98US-0084366P.  
PR 06-MAY-1998; 98US-0084414P.  
PR 07-MAY-1998; 98US-0084588P.  
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PR 07-MAY-1998; 98US-0084627P.  
PR 07-MAY-1998; 98US-0084637P.  
PR 07-MAY-1998; 98US-0084640P.  
PR 07-MAY-1998; 98US-0084643P.  
PR 13-MAY-1998; 98US-0085323P.  
PR 13-MAY-1998; 98US-0085338P.  
PR 13-MAY-1998; 98US-0085339P.  
PR 15-MAY-1998; 98US-0085573P.  
PR 15-MAY-1998; 98US-0085579P.  
PR 15-MAY-1998; 98US-0085580P.  
PR 15-MAY-1998; 98US-0085582P.  
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PR 15-MAY-1998; 98US-0085704P.  
PR 18-MAY-1998; 98US-0086023P.  
PR 22-MAY-1998; 98US-0086392P.  
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PR 22-MAY-1998; 98US-0086430P.  
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PR 28-MAY-1998; 98US-0087098P.  
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PR 28-MAY-1998; 98US-0087208P.  
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PR 26-JUN-1998; 98US-0090863P.  
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PR 01-JUL-1998; 98US-0091359P.  
PR 30-JUL-1998; 98US-0094651P.  
PR 11-SEP-1998; 98US-0100038P.  
PR 07-OCT-1998; 98US-00168978.  
PR 07-OCT-1998; 98US-0021141.  
PR 06-NOV-1998; 98US-00184216.  
PR 06-NOV-1998; 98US-00187368.  
PR 20-NOV-1998; 98US-0109304P.  
PR 20-NOV-1998; 98US-0024855.  
PR 22-DEC-1998; 98US-00218517.  
PR 22-DEC-1998; 98US-0113296P.  
PR 23-DEC-1998; 98US-0113621P.  
PR 05-JAN-1999; 98US-00254465.  
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PR 08-MAR-1999; 98US-00265686.  
PR 10-MAR-1999; 98US-00265686.  
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PR 12-MAR-1999; 98US-0123957P.  
PR 23-MAR-1999; 98US-0126773P.  
PR 13-APR-1999; 98US-00284291.  
PR 21-APR-1999; 98US-0130232P.  
PR 26-APR-1999; 98US-0131022P.  
PR 28-APR-1999; 98US-0131445P.  
PR 14-MAY-1999; 98US-00311832.  
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PR 14-MAY-1999; 98US-0134287P.  
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PR 16-JUN-1999; 98US-0139557P.  
PR 23-JUN-1999; 98US-0141037P.

PR 07-JUL-1999; 99US-0142680P.  
PR 26-JUL-1999; 99US-0145698P.  
PR 28-JUL-1999; 99US-0146222P.  
PR 25-AUG-1999; 99US-00380137.  
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PR 18-FEB-2000; 99US-0162506P.  
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PR 08-NOV-2000; 99US-0162506P.  
PR 27-NOV-2000; 99US-0162506P.  
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PR 19-JUN-2001; 99US-0162506P.  
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PR 29-JUN-2001; 99US-0162506P.  
PR 09-JUL-2001; 99US-0162506P.  
PR 30-JUL-2001; 99US-0162506P.

XX (GETH ) GENENTECH INC.

PI Ashkenazi AJ, Baker KP, Botstein D, Deanoyers L, Eaton DL;

Query Match 100.0%; Score 587; DB 7; Length 111;  
Best Local Similarity 100.0%; Pred. No. 1.6e-59; Indels 0; Gaps 0;  
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RESULT 24  
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DT 18-DEC-2003 (first entry)  
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KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;  
KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
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XX 10-APR-2003.  
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PR 02-DEC-1999; 98US-028551.  
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PR 16-DEC-1999; 98US-030095.  
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PR 29-JUN-2001; 2001WO-US021066.  
PR 09-JUL-2001; 2001WO-US021735.  
PR 30-JUL-2001; 2001US-00918585.  
XX (GETH ) GENENTECH INC.  
XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;  
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;  
PI KJavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
PI Stewart TA, Tumas D, Williams PM, Wood WI;  
XX WPI; 2003-657582/62.  
DR N-PSDB; ADC68090.  
XX Novel secreted and transmembrane polypeptides, designated PRO  
PT polypeptides, and polynucleotides encoding them useful for treating  
PT kidney diseases, bone, cartilage and retinal disorders.  
XX Claim 12; SEQ ID NO 370; 468pp; English.  
XX The invention relates to an isolated PRO polypeptide (secreted or  
CC transmembrane protein) having at least 80% amino acid sequence identity  
CC to an amino acid sequence chosen from 94 fully defined sequences as given  
CC in the specification (including PRO lacking its associated signal  
CC peptide, a PRO extracellular domain with or without its associated signal  
CC peptide). Also included are nucleic acids encoding the PRO proteins  
CC mentioned above, a vector comprising a PRO nucleic acid, a host cell  
CC comprising the vector and producing PRO, a chimaeric molecule comprising  
CC PRO fused to a heterologous amino acid sequence, and an anti-PRO  
CC antibody. PRO337 polypeptide is useful for detecting a PRO4993  
CC polypeptide in a sample suspected of containing PRO4993 polypeptide.  
CC Similarly, PRO4993 polypeptide is useful for detecting PRO337  
CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting

Query Match 100.0%; Score 587; DB 7; Length 111;  
Best Local Similarity 100.0%; Pred. No. 1.6e-59;  
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 1 MSLLPRAPPVSMELAAALLLLALYARVDGSKCKSGKPKIRYSDVKLEMKPKY 60  
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Search completed: June 30, 2005, 07:50:14  
Job time : 170 secs

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OM protein - protein search, using sw model

Run on: June 30, 2005, 07:46:48 ; Search time 22 Seconds  
(without alignments)  
376.638 Million cell updates/sec

Title: US-10-791-618-2

Perfect score: 587

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Scoring table: BLOSUM62

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Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

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6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	582	99.1	111	4	US-09-238-184-2
3	522	88.9	99	2	US-08-825-556A-3
4	522	88.9	99	4	US-09-238-184-3
5	509	86.7	95	3	US-09-188-930-344
6	509	86.7	95	3	US-09-724-864-68
7	509	86.7	95	4	US-09-312-283C-344
8	506	86.2	99	3	US-09-188-930-340
9	506	86.2	99	4	US-09-312-283C-340
10	506	86.2	99	4	US-09-312-283C-394
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13	428	72.9	77	3	US-09-188-930-346
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24	143.5	24.4	100	3	US-08-679-493A-146
25	138	23.5	100	3	US-08-476-376-2
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27	128.5	21.9	107	1	US-08-352-324A-4

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29	128.5	21.9	107	2	US-08-468-819-6	Sequence 6, Appli
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56	95.5	16.3	78	2	US-08-436-420-38	Sequence 38, Appl
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58	94.5	16.1	126	1	US-09-312-283C-420	Sequence 420, App
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79	87.5	14.9	125	1	US-07-624-742-3	Sequence 3, Appli
80	87.5	14.9	125	2	US-08-468-819-2	Sequence 2, Appli
81	87.5	14.9	125	4	US-09-213-383-2	Sequence 2, Appli
82	87.5	14.9	125	4	US-09-949-016-6221	Sequence 6221, Ap
83	87	14.8	149	4	US-09-646-028-6	Sequence 6, Appli
84	86.5	14.7	73	1	US-08-330-163-3	Sequence 3, Appli
85	86.5	14.7	73	1	US-08-482-111-3	Sequence 3, Appli
86	86.5	14.7	113	1	US-08-816-772-2	Sequence 2, Appli
87	86	14.7	70	1	US-08-330-163-24	Sequence 24, Appl
88	86	14.7	70	1	US-08-482-111-24	Sequence 24, Appl
89	86	14.7	100	4	US-09-513-999C-4259	Sequence 4259, Ap
90	84	14.3	70	1	US-08-330-163-26	Sequence 26, Appl
91	84	14.3	70	1	US-08-482-111-26	Sequence 26, Appl
92	84	14.3	94	1	US-08-514-014-8	Sequence 8, Appli
93	84	14.3	94	1	US-08-514-014-10	Sequence 10, Appl
94	84	14.3	94	2	US-08-833-823-8	Sequence 8, Appli
95	84	14.3	94	2	US-08-833-823-10	Sequence 10, Appl
96	84	14.3	94	4	US-09-630-709-2	Sequence 2, Appli
97	84	14.3	101	2	US-08-927-722-2	Sequence 2, Appli
98	84	14.3	101	4	US-09-378-069A-2	Sequence 2, Appli
99	84	14.3	104	6	5187075-5	Patent No. 5187075
100	84	14.3	104	6	5187075-5	Patent No. 5187075

## ALIGNMENTS

```
RESULT 1
US-08-825-556A-2
; Sequence 2, Application US/08825556A
; Patent No. 5910431
; GENERAL INFORMATION:
; APPLICANT: Ni, Jian
; APPLICANT: Gentz, Reiner L.
; APPLICANT: Su, Jeffrey Y.
; APPLICANT: Li, Haodong
; TITLE OF INVENTION: Chemokine Alpha 2
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
; STREET: 1100 New York Ave., Suite 600
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-2934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/825,556A
; FILING DATE: 19-MAR-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/013,653
; FILING DATE: 19-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Steffe, Eric K.
; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1488.0850001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 111 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-825-556A-2

Query Match          99.1%; Score 582; DB 2; Length 111;
Best Local Similarity 99.1%; Pred. No. 1.8e-63;
Matches 110; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSLPRAPPVSMRLAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
DB 1 MSLPRAPPVSMRLAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60

QY 61 PHCEKMWIITKSVSRYGQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111
DB 61 PHCEKMWIITKSVSRYGQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111

RESULT 2
US-09-238-184-2
; Sequence 2, Application US/09238184
; Patent No. 6479633
; GENERAL INFORMATION:
; APPLICANT: Ni, Jian
; APPLICANT: Gentz, Reiner L.
; APPLICANT: Su, Jeffrey Y.
; APPLICANT: Li, Haodong
; TITLE OF INVENTION: Chemokine Alpha 2
```

```
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
; STREET: 1100 New York Ave., Suite 600
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-2934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/238,184
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/825,556
; FILING DATE: 19-MAR-1997
; APPLICATION NUMBER: US 60/013,653
; FILING DATE: 19-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Steffe, Eric K.
; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1488.0850001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 111 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-238-184-2

Query Match          99.1%; Score 582; DB 4; Length 111;
Best Local Similarity 99.1%; Pred. No. 1.8e-63;
Matches 110; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSLPRAPPVSMRLAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60
DB 1 MSLPRAPPVSMRLAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMPKY 60

QY 61 PHCEKMWIITKSVSRYGQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111
DB 61 PHCEKMWIITKSVSRYGQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111

RESULT 3
US-08-825-556A-3
; Sequence 3, Application US/08825556A
; Patent No. 5910431
; GENERAL INFORMATION:
; APPLICANT: Ni, Jian
; APPLICANT: Gentz, Reiner L.
; APPLICANT: Su, Jeffrey Y.
; APPLICANT: Li, Haodong
; TITLE OF INVENTION: Chemokine Alpha 2
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
; STREET: 1100 New York Ave., Suite 600
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-2934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
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;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/825,556A
; FILING DATE: 19-MAR-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/013,653
; FILING DATE: 19-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Steffe, Eric K.
; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1488.0850001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
;
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 99 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-825-556A-3

Query Match      88.9%; Score 522; DB 2; Length 99;
Best Local Similarity 99.0%; Pred. No. 3.4e-56;
Matches 98; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 13 MRLAAALLLLLLALYARVDGSKCCKSRGPKIRYSDVKKLEMKPKYPHCEERKWIIT 72
Db 1 MRLAAALLLLLLALYARVDGSKCCKSRGPKIRYSDVKKLEMKPKYPHCEERKWIIT 60

Qy 73 KSVSRVYRGQEHLPKLOSTKRFIKWYNANNEKRVYEE 111
Db 61 KSVSRVYRGQEHLPKLOSTKRFIKWYNANNEKRVYEE 99

RESULT 4
US-09-238-184-3
; Sequence 3, Application US/09238184
; Patent No. 6479633
; GENERAL INFORMATION:
; APPLICANT: Ni, Jian
; APPLICANT: Gentz, Reiner L.
; APPLICANT: Su, Jeffrey Y.
; APPLICANT: Li, Haodong
; TITLE OF INVENTION: Chemokine Alpha 2
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
; STREET: 1100 New York Ave., Suite 600
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-2934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/238,184
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/825,556
; FILING DATE: 19-MAR-1997
; APPLICATION NUMBER: US 60/013,653
; FILING DATE: 19-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Steffe, Eric K.
; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1488.0850001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600

;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/825,556A
; FILING DATE: 19-MAR-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/013,653
; FILING DATE: 19-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Steffe, Eric K.
; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1488.0850001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600

;
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 99 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-238-184-3

Query Match      88.9%; Score 522; DB 4; Length 99;
Best Local Similarity 99.0%; Pred. No. 3.4e-56;
Matches 98; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 13 MRLAAALLLLLLALYARVDGSKCCKSRGPKIRYSDVKKLEMKPKYPHCEERKWIIT 72
Db 1 MRLAAALLLLLLALYARVDGSKCCKSRGPKIRYSDVKKLEMKPKYPHCEERKWIIT 60

Qy 73 KSVSRVYRGQEHLPKLOSTKRFIKWYNANNEKRVYEE 111
Db 61 KSVSRVYRGQEHLPKLOSTKRFIKWYNANNEKRVYEE 99

RESULT 5
US-09-188-930-344
; Sequence 344, Application US/09188930A
; Patent No. 6150502
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James Greg
; TITLE OF INVENTION: Compositions Isolated From Skin Cells
; FILE REFERENCE: 11000.1011c1
; CURRENT APPLICATION NUMBER: US/09/188,930A
; CURRENT FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 348
; SOFTWARE: Fast-Seq for Windows Version 3.0
; SEQ ID NO 344
; LENGTH: 95
; TYPE: PRT
; ORGANISM: Mouse
; US-09-188-930-344

Query Match      86.7%; Score 509; DB 3; Length 95;
Best Local Similarity 100.0%; Pred. No. 1.3e-54;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 17 AAALLLLLLALYARVDGSKCCKSRGPKIRYSDVKKLEMKPKYPHCEERKWIITKSVS 76
Db 1 AAALLLLLLALYARVDGSKCCKSRGPKIRYSDVKKLEMKPKYPHCEERKWIITKSVS 60

Qy 77 RYRGQEHLPKLOSTKRFIKWYNANNEKRVYEE 111
Db 61 RYRGQEHLPKLOSTKRFIKWYNANNEKRVYEE 95

RESULT 6
US-09-724-864-68
; Sequence 68, Application US/09724864
; Patent No. 6380362
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Murison, James G.
; TITLE OF INVENTION: Polynucleotides, polypeptides expressed
; FILE REFERENCE: 11000.1050U1
; CURRENT APPLICATION NUMBER: US/09/724,864
; CURRENT FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: U.S. No. 6380362 60/171,678
; PRIOR FILING DATE: 1999-12-23
; NUMBER OF SEQ ID NOS: 72
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; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 95
; TYPE: PRT
; ORGANISM: Human
US-09-724-864-68

Query Match      86.7%; Score 509; DB 3; Length 95;
Best Local Similarity 100.0%; Pred. No. 1.3e-54;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 17 A A A L L L L L A L Y T A R V D G S K C K S R G P K I R Y S D V K K L E M K P K Y P H C E E K W I I T T K S V S 76
Db 1 A A A L L L L L A L Y T A R V D G S K C K S R G P K I R Y S D V K K L E M K P K Y P H C E E K W I I T T K S V S 60

QY 77 R Y R G Q E H C L H P K L Q S T K R F I K W Y N A W N E K R R V Y E E 111
Db 61 R Y R G Q E H C L H P K L Q S T K R F I K W Y N A W N E K R R V Y E E 95

RESULT 7
US-09-312-283C-344
; Sequence 344, Application US/09312283C
; Patent No. 6573095
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James G.
; APPLICANT: Kumble, Krishanand D.
; TITLE OF INVENTION: Compositions Isolated from Skin Cells
; TITLE OF INVENTION: and Methods For Their Use
; FILE REFERENCE: 11000.1011c2
; CURRENT APPLICATION NUMBER: US/09/312,283C
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 425
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 344
; LENGTH: 95
; TYPE: PRT
; ORGANISM: Mouse
US-09-312-283C-344

Query Match      86.7%; Score 509; DB 4; Length 95;
Best Local Similarity 100.0%; Pred. No. 1.3e-54;
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 17 A A A L L L L L A L Y T A R V D G S K C K S R G P K I R Y S D V K K L E M K P K Y P H C E E K W I I T T K S V S 76
Db 1 A A A L L L L L A L Y T A R V D G S K C K S R G P K I R Y S D V K K L E M K P K Y P H C E E K W I I T T K S V S 60

QY 77 R Y R G Q E H C L H P K L Q S T K R F I K W Y N A W N E K R R V Y E E 111
Db 61 R Y R G Q E H C L H P K L Q S T K R F I K W Y N A W N E K R R V Y E E 95

RESULT 8
US-09-188-930-340
; Sequence 340, Application US/09188930A
; Patent No. 6150502
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James Greg
; TITLE OF INVENTION: Compositions Isolated From Skin Cells
; TITLE OF INVENTION: and Methods For Their Use
; FILE REFERENCE: 11000.1011c1
; CURRENT APPLICATION NUMBER: US/09/188,930A
; CURRENT FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 348

; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 340
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Mouse
US-09-188-930-340

Query Match      86.2%; Score 506; DB 3; Length 99;
Best Local Similarity 94.9%; Pred. No. 3.1e-54;
Matches 94; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 13 M R L L A A L L L L A L Y T A R V D G S K C K S R G P K I R Y S D V K K L E M K P K Y P H C E E K W I I T T 72
Db 1 M R L L A A L L L L A L C A S R V D G S K C K S R G P K I R Y S D V K K L E M K P K Y P H C E E K W I I T T 60

QY 73 K S V S R Y R G Q E H C L H P K L Q S T K R F I K W Y N A W N E K R R V Y E E 111
Db 61 K S M S R Y R G Q E H C L H P K L Q S T K R F I K W Y N A W N E K R R V Y E E 99

RESULT 9
US-09-312-283C-340
; Sequence 340, Application US/09312283C
; Patent No. 6573095
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James G.
; APPLICANT: Kumble, Krishanand D.
; TITLE OF INVENTION: Compositions Isolated from Skin Cells
; TITLE OF INVENTION: and Methods for Their Use
; FILE REFERENCE: 11000.1011c2
; CURRENT APPLICATION NUMBER: US/09/312,283C
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 425
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 340
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Mouse
US-09-312-283C-340

Query Match      86.2%; Score 506; DB 4; Length 99;
Best Local Similarity 94.9%; Pred. No. 3.1e-54;
Matches 94; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 13 M R L L A A L L L L A L Y T A R V D G S K C K S R G P K I R Y S D V K K L E M K P K Y P H C E E K W I I T T 72
Db 1 M R L L A A L L L L A L C A S R V D G S K C K S R G P K I R Y S D V K K L E M K P K Y P H C E E K W I I T T 60

QY 73 K S V S R Y R G Q E H C L H P K L Q S T K R F I K W Y N A W N E K R R V Y E E 111
Db 61 K S M S R Y R G Q E H C L H P K L Q S T K R F I K W Y N A W N E K R R V Y E E 99

RESULT 10
US-09-312-283C-394
; Sequence 394, Application US/09312283C
; Patent No. 6573095
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James G.
; APPLICANT: Kumble, Krishanand D.
; TITLE OF INVENTION: Compositions Isolated from Skin Cells
; TITLE OF INVENTION: and Methods for Their Use
; FILE REFERENCE: 11000.1011c2
; CURRENT APPLICATION NUMBER: US/09/312,283C
; CURRENT FILING DATE: 1999-05-14
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; NUMBER OF SEQ ID NOS: 425
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 394
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Mouse
; US-09-312-283C-394

Query Match      86.2%; Score 506; DB 4; Length 99;
Best Local Similarity 94.9%; Pred. No. 3.1e-54;
Matches 94; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 13 MRLAAALLLLLLALYATARDGSKCKSRGPKIRYSDVKLEMKPKYPHCEERKVIIT 72
Db 1 MRLAAALLLLLLALCASRDGSKCKSRGPKIRYSDVKLEMKPKYPHCEERKVIIT 60

Qy 73 KVSRYRGQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111
Db 61 KMSRYRGQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 99

RESULT 11
US-09-312-283C-417
; Sequence 417, Application US/09312283C
; Patent No. 6573095
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James G.
; APPLICANT: Kumble, Krishanand D.
; TITLE OF INVENTION: Compositions Isolated from Skin Cells
; FILE REFERENCE: 11000.1011c2
; CURRENT APPLICATION NUMBER: US/09/312,283C
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 425
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 417
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Mouse
; US-09-312-283C-417

Query Match      86.2%; Score 506; DB 4; Length 99;
Best Local Similarity 94.9%; Pred. No. 3.1e-54;
Matches 94; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 13 MRLAAALLLLLLALYATARDGSKCKSRGPKIRYSDVKLEMKPKYPHCEERKVIIT 72
Db 1 MRLAAALLLLLLALCASRDGSKCKSRGPKIRYSDVKLEMKPKYPHCEERKVIIT 60

Qy 73 KVSRYRGQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111
Db 61 KMSRYRGQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 99

RESULT 12
US-09-312-283C-418
; Sequence 418, Application US/09312283C
; Patent No. 6573095
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James G.
; APPLICANT: Kumble, Krishanand D.
; TITLE OF INVENTION: Compositions Isolated from Skin Cells
; FILE REFERENCE: 11000.1011c2
; CURRENT APPLICATION NUMBER: US/09/312,283C

; NUMBER OF SEQ ID NOS: 425
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 418
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human
; US-09-312-283C-418

Query Match      85.9%; Score 504.5; DB 4; Length 98;
Best Local Similarity 98.0%; Pred. No. 4.6e-54;
Matches 97; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

Qy 13 MRLAAALLLLLLALYATARDGSKCKSRGPKIRYSDVKLEMKPKYPHCEERKVIIT 72
Db 1 MRLPAAALLLLLLALYATARDGSKCKSRGPKIRYSDVKLEMKPKYPHCEERKVIIT 59

Qy 73 KVSRYRGQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 111
Db 60 KVSRYRGQEHCLHPKLOSTKRFIKWYNANNEKRRVYEE 98

RESULT 13
US-09-188-930-346
; Sequence 346, Application US/09188930A
; Patent No. 6150502
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James Greg
; TITLE OF INVENTION: Compositions Isolated From Skin Cells
; FILE REFERENCE: 11000.1011c1
; CURRENT APPLICATION NUMBER: US/09/188,930A
; CURRENT FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 348
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 346
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Mouse
; US-09-188-930-346

Query Match      72.9%; Score 428; DB 3; Length 77;
Best Local Similarity 100.0%; Pred. No. 7.8e-45;
Matches 77; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 35 SKCKSRGPKIRYSDVKLEMKPKYPHCEERKVIITTKSVRYRGQEHCLHPKLOSTKR 94
Db 1 SKCKSRGPKIRYSDVKLEMKPKYPHCEERKVIITTKSVRYRGQEHCLHPKLOSTKR 60

Qy 95 FIKWYNANNEKRRVYEE 111
Db 61 FIKWYNANNEKRRVYEE 77

RESULT 14
US-09-724-864-72
; Sequence 72, Application US/09724864
; Patent No. 6380362
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Murison, James G.
; TITLE OF INVENTION: Polynucleotides, polypeptides expressed
; TITLE OF INVENTION: by the polynucleotides and methods for their use.
; FILE REFERENCE: 11000.1050U1
; CURRENT APPLICATION NUMBER: US/09/724,864
; CURRENT FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: U.S. No. 6380362 60/171,678
; PRIOR FILING DATE: 1999-12-23
; NUMBER OF SEQ ID NOS: 72
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; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 72
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Human
US-09-724-864-72

Query Match          72.9%; Score 428; DB 3; Length 77;
Best Local Similarity 100.0%; Pred. No. 7.8e-45;
Matches 77; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 35 SKCKSRKGPRIYSDVKLEMKPKYPHCEKMWIITKSVSRYGQEHCLHPKLOSTKR 94
Db 1 SKCKSRKGPRIYSDVKLEMKPKYPHCEKMWIITKSVSRYGQEHCLHPKLOSTKR 60

Qy 95 FIKWYNAWNEKRRVYEE 111
Db 61 FIKWYNAWNEKRRVYEE 77

RESULT 15
US-09-312-283C-346
; Sequence 346, Application US/09312283C
; Patent No. 6573095
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James G.
; APPLICANT: Kumble, Krishanand D.
; TITLE OF INVENTION: Compositions Isolated from Skin Cells
; TITLE OF INVENTION: and Methods for Their Use
; FILE REFERENCE: 11000.1011c2
; CURRENT APPLICATION NUMBER: US/09/312.283C
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 425
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 346
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Mouse
US-09-312-283C-346

Query Match          72.9%; Score 428; DB 4; Length 77;
Best Local Similarity 100.0%; Pred. No. 7.8e-45;
Matches 77; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 35 SKCKSRKGPRIYSDVKLEMKPKYPHCEKMWIITKSVSRYGQEHCLHPKLOSTKR 94
Db 1 SKCKSRKGPRIYSDVKLEMKPKYPHCEKMWIITKSVSRYGQEHCLHPKLOSTKR 60

Qy 95 FIKWYNAWNEKRRVYEE 111
Db 61 FIKWYNAWNEKRRVYEE 77

RESULT 16
US-09-188-930-345
; Sequence 345, Application US/09188930A
; Patent No. 6150502
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James Greg
; TITLE OF INVENTION: Compositions Isolated From Skin Cells
; TITLE OF INVENTION: and Methods For Their Use
; FILE REFERENCE: 11000.1011c1
; CURRENT APPLICATION NUMBER: US/09/188.930A
; CURRENT FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 348

; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 345
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Mouse
US-09-188-930-345

Query Match          72.2%; Score 424; DB 3; Length 77;
Best Local Similarity 97.4%; Pred. No. 2.4e-44;
Matches 75; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 35 SKCKSRKGPRIYSDVKLEMKPKYPHCEKMWIITKSVSRYGQEHCLHPKLOSTKR 94
Db 1 SKCKSRKGPRIYSDVKLEMKPKYPHCEKMWIITKSVSRYGQEHCLHPKLOSTKR 60

Qy 95 FIKWYNAWNEKRRVYEE 111
Db 61 FIKWYNAWNEKRRVYEE 77

RESULT 17
US-09-724-864-70
; Sequence 70, Application US/09724864
; Patent No. 6380362
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Murison, James G.
; TITLE OF INVENTION: Polynucleotides, polypeptides expressed
; TITLE OF INVENTION: by the polynucleotides and methods for their use.
; FILE REFERENCE: 11000.1050U1
; CURRENT APPLICATION NUMBER: US/09/724.864
; CURRENT FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: U.S. No. 6380362 60/171.678
; PRIOR FILING DATE: 1999-12-23
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 70
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Mouse
US-09-724-864-70

Query Match          72.2%; Score 424; DB 3; Length 77;
Best Local Similarity 97.4%; Pred. No. 2.4e-44;
Matches 75; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 35 SKCKSRKGPRIYSDVKLEMKPKYPHCEKMWIITKSVSRYGQEHCLHPKLOSTKR 94
Db 1 SKCKSRKGPRIYSDVKLEMKPKYPHCEKMWIITKSVSRYGQEHCLHPKLOSTKR 60

Qy 95 FIKWYNAWNEKRRVYEE 111
Db 61 FIKWYNAWNEKRRVYEE 77

RESULT 18
US-09-312-283C-345
; Sequence 345, Application US/09312283C
; Patent No. 6573095
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James G.
; APPLICANT: Kumble, Krishanand D.
; TITLE OF INVENTION: Compositions Isolated from Skin Cells
; TITLE OF INVENTION: and Methods for Their Use
; FILE REFERENCE: 11000.1011c2
; CURRENT APPLICATION NUMBER: US/09/312.283C
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 425
; SOFTWARE: FastSEQ for Windows Version 4.0
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; SEQ ID NO 345
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Mouse
US-09-312-283C-345

Query Match      72.2%; Score 424; DB 4; Length 77;
Best Local Similarity 97.4%; Pred. No. 2.4e-44;
Matches 75; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 35 SKCKSRGPKIRYSDVKKLEMKPKYPHCEKMWIIITTKSVSRVYRGQEHCLHPKLOSTKR 94
    |||
Db 1 SKCKSRGPKIRYSDVKKLEMKPKYPHCEKMWIIITTKSVSRVYRGQEHCLHPKLOSTKR 60
    |||

Qy 95 FIKYNAWNEKRRVYEE 111
    |||
Db 61 FIKYNAWNEKRRVYEE 77

RESULT 19
US-09-177-304-3
; Sequence 3, Application US/09177304A
; Patent No. 6372456
; GENERAL INFORMATION:
; APPLICANT: Wei, Ying-Pei et al.
; TITLE OF INVENTION: Chemokine Alpha-6
; FILE REFERENCE: PF458
; CURRENT APPLICATION NUMBER: US/09/177,304A
; CURRENT FILING DATE: 1998-10-23
; EARLIER APPLICATION NUMBER: 60/063,387
; EARLIER FILING DATE: 1997-10-24
; EARLIER APPLICATION NUMBER: 60/079,245
; EARLIER FILING DATE: 1998-03-25
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 75
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-177-304-3

Query Match      70.5%; Score 414; DB 3; Length 75;
Best Local Similarity 98.7%; Pred. No. 3.9e-43;
Matches 74; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 37 CKCSRKGPKIRYSDVKKLEMKPKYPHCEKMWIIITTKSVSRVYRGQEHCLHPKLOSTKRFI 96
    |||
Db 1 CKCSRKGPKIRYSDVKKLEMKPKYPHCEKMWIIITTKSVSRVYRGQEHCLHPKLOSTKRFI 60
    |||

Qy 97 KQYNAWNEKRRVYEE 111
    |||
Db 61 KQYNAWNEKRRVYEE 75

RESULT 20
US-09-188-930-157
; Sequence 157, Application US/09188930A
; Patent No. 6150502
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James Greg
; TITLE OF INVENTION: Compositions Isolated From Skin Cells
; FILE REFERENCE: 11000.1011c1
; CURRENT APPLICATION NUMBER: US/09/188,930A
; CURRENT FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 348
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 157
; LENGTH: 133

; SEQ ID NO 345
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Mouse
US-09-312-283C-345

Query Match      50.8%; Score 298; DB 3; Length 133;
Best Local Similarity 63.7%; Pred. No. 1.2e-26;
Matches 65; Conservative 6; Mismatches 25; Indels 6; Gaps 1;

Qy 13 MRLAAALLLLLLALYARVDGSKCKSRGPKIRYSDVKKLEMKPKYPHCEKMWIIITTT 72
    |||
Db 1 MRLAAALLLLLLALCASRVDSKCKSRGPKIRYSDVKKLEMKPKYPHCEKMWIIITTT 60
    |||

Qy 73 KSVSRVYRGQE-----HCLHPKLOSTKRFIKWYNAMNEKRRV 108
    |||
Db 61 KEHVQGTGARSTACTLSCLAPNASSSGTTPGTRSGSTKNRV 102
    |||

RESULT 21
US-09-312-283C-157
; Sequence 157, Application US/09312283C
; Patent No. 6573095
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James G.
; APPLICANT: Kumble, Krishanand D.
; TITLE OF INVENTION: Compositions Isolated from Skin Cells
; TITLE OF INVENTION: and Methods for Their Use
; FILE REFERENCE: 11000.1011c2
; CURRENT APPLICATION NUMBER: US/09/312,283C
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 425
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 133
; TYPE: PRT
; ORGANISM: Mouse
US-09-312-283C-157

Query Match      50.8%; Score 298; DB 4; Length 133;
Best Local Similarity 63.7%; Pred. No. 1.2e-26;
Matches 65; Conservative 6; Mismatches 25; Indels 6; Gaps 1;

Qy 13 MRLAAALLLLLLALYARVDGSKCKSRGPKIRYSDVKKLEMKPKYPHCEKMWIIITTT 72
    |||
Db 1 MRLAAALLLLLLALCASRVDSKCKSRGPKIRYSDVKKLEMKPKYPHCEKMWIIITTT 60
    |||

Qy 73 KSVSRVYRGQE-----HCLHPKLOSTKRFIKWYNAMNEKRRV 108
    |||
Db 61 KEHVQGTGARSTACTLSCLAPNASSSGTTPGTRSGSTKNRV 102
    |||

RESULT 22
US-08-825-556A-4
; Sequence 4, Application US/08825556A
; Patent No. 5910431
; GENERAL INFORMATION:
; APPLICANT: Ni, Jian
; APPLICANT: Gentz, Reiner L.
; APPLICANT: Su, Jeffrey Y.
; APPLICANT: Li, Haodong
; TITLE OF INVENTION: Chemokine Alpha 2
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
; STREET: 1100 New York Ave., Suite 600
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-2934
; COMPUTER READABLE FORM:
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OM protein - protein search, using sw model

Run on: June 30, 2005, 07:46:48 ; Search time 176 Seconds  
(without alignments)  
322.959 Million cell updates/sec

Title: US-10-791-618-2

Perfect score: 587

Sequence: 1 MSLLPRRAPPVSMELLAAL.....TKRFIKWYNAMKRRVYEE 111

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

UniProt\_03:\*

1: uniprot\_sprot:\*

2: uniprot\_trembl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	587	100.0	111	2 Q6U97	Q6u97 Homo sapien
2	582	99.1	111	2 Q9NS21	Q9ns21 Homo sapien
3	527	89.8	99	1 S214 HUMAN	Q95715 Homo sapien
4	507	86.4	99	2 Q8K453	Q8k453 rattus norv
5	506	86.2	99	2 Q3TH7	Q9jhh7 m b cell an
6	489	83.3	99	1 S214_MOUSE	Q9wuq5 mus musculus
7	488	83.1	95	2 Q91V02	Q91v02 mus musculus
8	434	73.9	79	2 Q6EXK6	Q6ekx6 sus scrofa
9	393	67.0	99	2 Q6GLX8	Q6glx8 xenopus lae
10	352	60.0	99	2 Q70V42	Q70v42 cyprinus ca
11	338.5	57.7	98	2 Q6DUZ6	Q6duz6 gekko japon
12	337	57.4	150	2 Q6PHD5	Q6phd5 brachydanio
13	337	57.4	160	2 Q66L61	Q66l61 brachydanio
14	335	57.1	100	2 Q3DFG4	Q9dfg4 gallus gall
15	322.5	54.9	98	2 Q9DGL8	Q9dgl8 mus musculus
16	276	47.0	61	2 Q6AXC2	Q6axc2 mus musculus
17	143.5	24.4	100	1 M2B_RAT	Q10747 rattus norv
18	143.5	24.4	101	2 Q9EP62	Q9ep62 rattus norv
19	138	23.5	100	1 M1P2_MOUSE	P10889 mus musculus
20	135	23.0	100	2 Q6W5C0	Q6w5c0 mus musculus
21	131.5	22.4	107	2 Q6PUD4	Q6pud4 sus scrofa
22	131	22.3	101	1 GRO_CRIGR	P05340 cricetus
23	130.5	22.2	107	2 Q6PUJ1	Q6puj1 sus scrofa
24	128.5	21.9	107	1 M12A_HUMAN	P19875 Homo sapien
25	128.5	21.9	108	2 Q98724	Q98724 oryctolagus
26	128	21.8	100	2 Q91ZK9	Q91zk9 sigmodon hi
27	127.5	21.7	103	1 GRO_SHEEP	O46678 ovis aries
28	126.5	21.6	101	2 Q91Z64	O91z64 sigmodon hi
29	124	21.1	100	1 M1P2_RAT	P30348 rattus norv
30	122.5	20.9	98	1 GROG_BOVIN	O46675 bos taurus
31	121.5	20.7	107	2 Q8HXZ4	Q8hxz4 macaca mula

32	119.5	20.4	107	2 Q8HXZ3	Q8hxz3 macaca mula
33	118.5	20.2	104	1 GRO2_RABIT	P47854 oryctolagus
34	117.5	20.0	104	1 GROB_BOVIN	O46677 bos taurus
35	117.5	20.0	107	1 GRO_HUMAN	P09341 Homo sapien
36	116.5	19.8	107	1 M12B_HUMAN	P19876 Homo sapien
37	113.5	19.3	104	1 GROA_BOVIN	O46676 bos taurus
38	111	18.9	96	1 GRO_MOUSE	P26850 mus musculus
39	109.5	18.7	90	2 Q6W5B9	Q6w5b9 mus spretus
40	104.5	17.8	68	1 M12A_RAT	Q10746 rattus norv
41	103	17.5	104	1 GRO_CAVPO	O55235 cavia porce
42	103	17.5	117	1 AMC2_PIG	P22952 sus scrofa
43	102	17.4	89	2 Q6UB76	Q6ub76 sus scrofa
44	100	17.0	95	2 Q7T0B3	Q7t0b3 ictalurus p
45	97.5	16.6	97	2 Q98TQ2	Q98tq2 oncorhynch
46	97	16.5	96	1 GRO_RAT	P14095 rattus norv
47	95.5	16.3	66	2 Q7JFX4	Q7jfx4 oryctolagus
48	94.5	16.1	97	2 Q7SX73	Q7sx73 oncorhynch
49	94.5	16.1	113	1 SZ06_HORSE	Q8min2 equus caball
50	94.5	16.1	126	1 SZ09_MOUSE	P18340 mus musculus
51	90.5	15.4	71	1 GRO1_RABIT	P30782 oryctolagus
52	90.5	15.4	98	2 Q6F4N2	Q6f4n2 fugu rubrip
53	89.5	15.2	97	2 Q8QFP5	Q8qfp5 cyprinus ca
54	89.5	15.2	100	2 Q8AXP4	O8axp4 chimeraera ph
55	89.5	15.2	126	2 Q8C9J0	Q8c9j0 mus musculus
56	89	15.2	95	2 Q7T0B4	Q7t0b4 ictalurus p
57	89	15.2	113	2 Q9EQI5	Q9eqi5 mus musculus
58	88	15.0	95	2 Q7T0B2	Q7t0b2 ictalurus f
59	88	15.0	109	2 Q90Y59	Q90y59 paralichthy
60	87.5	14.9	111	2 Q99ME0	Q99me0 rattus norv
61	87.5	14.9	117	2 Q6SWE3	Q6swe3 human cytom
62	87.5	14.9	125	1 SZ09_HUMAN	Q07325 Homo sapien
63	87	14.8	98	2 Q8QGV8	Q8qgv8 paralichthy
64	87	14.8	114	1 SZ06_HUMAN	P80162 Homo sapien
65	86.5	14.7	104	2 Q739I2	Q739i2 gallus gall
66	86	14.7	93	2 Q9PTF8	Q9ptf8 brachydanio
67	86	14.7	112	1 SZ06_BOVIN	P80221 bos taurus
68	85.5	14.6	53	2 Q6LDD6	Q6ldd6 rattus sp.
69	84.5	14.4	116	2 Q91ZB2	Q91zb2 mus musculus
70	84.5	14.4	117	2 Q8C9B8	Q8c9b8 mus musculus
71	84	14.3	94	1 SZ11_HUMAN	O14625 Homo sapien
72	84	14.3	104	1 PP4V_HUMAN	P10720 Homo sapien
73	83.5	14.2	101	1 IL8_CANFA	P11324 canis famil
74	83.5	14.2	101	1 IL8_FELCA	Q9sxs5 felis silve
75	83.5	14.2	102	2 Q95MZ7	Q95mz7 ovis aries
76	83.5	14.2	102	2 Q867B3	Q867b3 capra hircu
77	83.5	14.2	117	2 Q68398	Q68398 human cytom
78	83	14.1	94	2 Q8MI20	Q8miz0 macaca mula
79	82.5	14.1	103	1 IL8_PIG	P26894 sus scrofa
80	82.5	14.1	128	1 SZ07_HUMAN	P02775 h platelet
81	82	14.0	94	1 SY26_HUMAN	Q9y258 Homo sapien
82	82	14.0	130	1 SZ05_RAT	P97885 rattus norv
83	81.5	13.9	98	1 SZ10_HUMAN	P02778 Homo sapien
84	81.5	13.9	101	2 Q8UW31	Q8uw91 triakis acy
85	81	13.8	101	1 PLF4_HUMAN	P02776 Homo sapien
86	81	13.8	457	2 Q7RI56	Q7rie6 giardia lam
87	80.5	13.7	53	2 Q6LDD5	Q6ldd5 rattus sp.
88	80.5	13.7	98	1 SZ10_MACMU	Q8miz1 macaca mula
89	80.5	13.7	98	1 SZ10_MOUSE	P17515 mus musculus
90	80.5	13.7	98	2 Q865F5	Q865f5 macaca name
91	80.5	13.7	101	1 IL8_BOVIN	P92255 bos taurus
92	80.5	13.7	103	1 EMF1_CHICK	P08317 gallus gall
93	80.5	13.7	115	2 Q6SWE1	Q6swe1 human cytom
94	80.5	13.7	115	2 Q6SWE5	Q6swe5 human cytom
95	80	13.6	119	1 SZ07_PIG	P43030 sus scrofa
96	79.5	13.5	101	1 IL8_SHEEP	P36925 ovis aries
97	79.5	13.5	101	1 IL8_TURTR	Q7yrb5 turslops tr
98	79.5	13.5	356	1 APTX_FUGRU	P61800 fugu rubrip
99	77.5	13.2	100	2 Q8QGB7	Q8qgb7 oncorhynch
100	77.5	13.2	125	2 Q8K4B1	Q8k4b1 rattus norv

ALIGNMENTS

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RESULT 1
Q6UN97 PRELIMINARY; PRT; 111 AA.
AC Q6UN97;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE SCVB14.
GN ORFNames=UNQ240;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,
RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
RA Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,
RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
RA Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,
RA Seehagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
RA Vandlen R., Watanabe C., Wieand D., Woods K., Xie M.H., Yansura D.,
RA Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,
RA Godowski P.;
RA "The secreted protein discovery initiative (SPDI), a large-scale
RT effort to identify novel human secreted and transmembrane proteins: a
RT bioinformatics assessment."
RL Genome Res. 13:2265-2270(2003).
DR EMBL: AY358906; AAC89265.1; -.
DR GO: GO:000576; C:extracellular; IEA.
DR GO: GO:0008009; F:chemokine activity; IEA.
DR GO: GO:0006955; P:immune response; IEA.
DR InterPro: IPR001811; Chemokine_IL8.
DR Pfam: PF00048; IL8; 1.
SQ SEQUENCE 111 AA; 13077 MW; C9A18B2A78CACF74 CRC64;

Query Match 100.0%; Score 587; DB 2; Length 111;
Best Local Similarity 100.0%; Pred. No. 5.4e-55;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSLPPRAPPVSMRLAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKY 60
DB 1 MSLPPRAPPVSMRLAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKY 60

QY 61 PHCEKRWIITKSVSRYGQEHCLHPKLOSTKRFIKWYNAMNEKRRVYEE 111
DB 61 PHCEKRWIITKSVSRYGQEHCLHPKLOSTKRFIKWYNAMNEKRRVYEE 111

RESULT 2
Q9NS21 PRELIMINARY; PRT; 111 AA.
AC Q9NS21;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Chemokine MIP-2 gamma.
GN Name=MIP-2 gamma;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20405642; PubMed=10946286;
RA Cao X., Zhang W., Wan T., He L., Chen T., Yuan Z., Ma S., Yu Y.,
RA Chen G.;
RT "Molecular cloning and characterization of a novel CXK chemokine
RT macrophage inflammatory protein-2 gamma chemoattractant for human
RT neutrophils and dendritic cells."
RL J. Immunol. 165:2598-2599(2000).
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DR EMBL: AF106911; AAF78449.1; -.
DR PIR: JG0182; JG0182.
DR GO: GO:000576; C:extracellular; IEA.
DR GO: GO:0008009; F:chemokine activity; IEA.
DR GO: GO:0006955; P:immune response; IEA.
DR InterPro: IPR001811; Chemokine_IL8.
DR Pfam: PF00048; IL8; 1.
SQ SEQUENCE 111 AA; 13126 MW; C9A18B3178CACF74 CRC64;

Query Match 99.1%; Score 582; DB 2; Length 111;
Best Local Similarity 99.1%; Pred. No. 1.8e-54;
Matches 110; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSLPPRAPPVSMRLAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKY 60
DB 1 MSLPPRAPPVSMRLAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKY 60

QY 61 PHCEKRWIITKSVSRYGQEHCLHPKLOSTKRFIKWYNAMNEKRRVYEE 111
DB 61 PHCEKRWIITKSVSRYGQEHCLHPKLOSTKRFIKWYNAMNEKRRVYEE 111

RESULT 3
SZ14 HUMAN STANDARD; PRT; 99 AA.
AC O85715; Q86U69; Q9BTR1;
DT 30-MAY-2000 (Rel. 39, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DE 05-JUL-2004 (Rel. 44, Last annotation update)
DE Small inducible cytokine B14 precursor (CXCL14) (Chemokine BRAX).
GN Name=CXCL14; Synonyms=NJAC, SCYB14;
OS Homo sapiens (Human)
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=99160416; PubMed=10049774; DOI=10.1006/bbrc.1999.0257;
RA Hromas R., Broxmeyer H.E., Kim C., Nakahatri H., Christopherson K. II,
RA Azam M., Hou Y.-H.;
RT "Cloning of BRAX, a novel divergent CXK chemokine preferentially
RT expressed in normal versus malignant cells."
RL Biochem. Biophys. Res. Commun. 255:703-706(1999).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Oral epithelium;
RA Frederick M.F., Henderson Y., Xu X., El-Naggar A.K., Wu H.,
RA Hudson J.M., Clayman G.L.;
RT "Identification of a novel chemokine family member with altered
RT expression in human head and neck squamous cell carcinoma."
RL Submitted (APR-1999) to the EMBL/GenBank/DBJ databases.
RN [3]
RP SEQUENCE FROM N.A.
RA Kalnine N., Chen X., Rolfs A., Halleck A., Hines L., Eisenstein S.,
RA Koundinya M., Raphael J., Moreira D., Kelley T., Labaer J., Lin Y.,
RA Phelan M., Farmer A.;
RT "Cloning of human full-length CDSs in BD Creator(TM) system donor
RT vector."
RL Submitted (MAY-2003) to the EMBL/GenBank/DBJ databases.
RN [4]
RP SEQUENCE FROM N.A.
RC TISSUE=Pancreas;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.F., Schuler G.D.,
RA Altshuler S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Udwin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
RA Bosak S.A., McSwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
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RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
RA Fahy J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,  
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,  
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,  
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smallick D.B.,  
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.,  
RT "Generation and initial analysis of more than 15,000 full-length human  
RT and mouse cDNA sequences.";  
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
CC -!- FUNCTION: Not chemotactic for T-cells, B-cells, monocytes,  
CC natural killer cells or granulocytes. Does not inhibit  
CC proliferation of myeloid progenitors in colony formation assays.  
CC -!- SUBCELLULAR LOCATION: Secreted.  
CC -!- TISSUE SPECIFICITY: Expressed in heart, brain, placenta, lung,  
CC liver, skeletal muscle, kidney and pancreas. Highly expressed in  
CC normal tissue without inflammatory stimuli and infrequently  
CC expressed in cancer cell lines.  
CC -!- SIMILARITY: Belongs to the intercrine alpha (chemokine CXC)  
CC family.  
CC  
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CC or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).  
CC  
CC EMBL: AF073957; AAD03839.1; -;  
CC EMBL: AF144103; AAD38944.1; -;  
CC EMBL: BT007080; AAP35743.1; ALT\_INIT.  
CC EMBL: BC003513; AAH03513.1; ALT\_INIT.  
CC Genew: HGNC:10640; CXCL14.  
CC H-InvDB: HIX0005195; -;  
CC MIM: 604186; -;  
CC GO: GO:0008009; P:chemokine activity; TAS.  
CC GO: GO:007287; P:cell-cell signaling; TAS.  
CC GO: GO:006935; P:chemotaxis; TAS.  
CC GO: GO:007165; P:signal transduction; TAS.  
CC InterPro: IPR002473; C-X-C/Interlkn.8.  
CC InterPro: IPR001811; Chemokine IL8.  
CC InterPro: IPR001089; CXC\_chemkine\_smll.  
CC Pfam: PF00048; IL8; 1.  
CC PRINTS: PR00436; INTERLEUKIN8.  
CC PROSITE: PS00471; SMALL\_CYTOKINES\_CXC; FALSE\_NEG.  
CC Cytokine; Signal.  
CC SIGNAL 1 22 Potential.  
CC CHAIN 23 99 Small inducible cytokine B14.  
CC DISULFID 25 51 By similarity.  
CC DISULFID 27 72 By similarity.  
CC SEQUENCE 99 AA; 11772 MW; 998802D8FC659C1D CRC64;  
  
Query Match 89.8%; Score 527; DB 1; Length 99;  
Best Local Similarity 100.0%; Pred. No. 1.3e-48;  
Matches 99; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 13 MRLAAALLLLALYARVDGSKCCKSRGPKIRYSDVKLEMKPKYPHCEKRWIIT 72  
Db 1 MRLAAALLLLALYARVDGSKCCKSRGPKIRYSDVKLEMKPKYPHCEKRWIIT 60  
  
Qy 73 KVSRYRGQEHCLHPKQLQSTKRFIKWYNAWNEKRVYEE 111  
Db 61 KVSRYRGQEHCLHPKQLQSTKRFIKWYNAWNEKRVYEE 99  
  
RESULT 4  
ID Q8K453 PRELIMINARY; PRT; 99 AA.  
AC Q8K453  
DT 01-OCT-2002 (TrEMBLrel. 22, Created)  
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)  
DT 25-OCT-2004 (TrEMBLrel. 24, Last annotation update)  
DE B cell and monocyte-activating chemokine precursor (Mus musculus  
DE brain cDNA, clone MNCB-6413, similar to Mus musculus kidney-expressed  
DE chemokine CXC (Kec) mRNA) (Mus musculus adult male lung cDNA, RIKEN  
DE full-length enriched library, clone:120006123 product:small inducible  
DE cytokine subfamily B (Cys-X-Cys), member 14, full insert sequence)  
DE (Mus musculus 17 days embryo head cDNA, RIKEN full-length enriched  
DE library, clone:1300001319 product:small inducible cytokine subfamily B  
DE (Cys-X-Cys), member 14, full insert sequence) (Mus musculus 10, 11  
DE days embryo whole body cDNA, RIKEN full-length enriched library,  
DE clone:2810410F08 product:small inducible cytokine subfamily B (Cys-X-  
DE Cys), member 14, full insert sequence).  
GN Name=Cxcl14; Synonyms=Bmac;  
OS Mus musculus (Mouse).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
OX NCBI\_TaxID=10090;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=BALB/cbVJ;  
RX MEDLINE=20247020; PubMed=10784614;  
RA Sleeman M.A., Fraser J.K., Murison J.G., Kelly S.L., Prestidge R.L.,  
RA Palmer D.J., Watson J.D., Kumble K.D.;  
RT "B cell- and monocyte-activating chemokine (BMAC), a novel non-ELR  
RT alpha-chemokine.";  
RL Int. Immunol. 12:677-689(2000).  
RN [2]  
RP SEQUENCE FROM N.A.  
RC STRAIN=C57BL;  
RA Osada N., Kusuda J., Tanuma R., Ito A., Hirata M., Sugano S.,  
RA Hashimoto K.;  
RL Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.  
RN [3]  
RP SEQUENCE FROM N.A.

DE BRAK.  
OS Rattus norvegicus (Rat).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  
OX NCBI\_TaxID=10116;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=Wistar;  
RA Han G.D., Koike H., Shimizu F., Kawachi H.;  
RL Submitted (FEB-2002) to the EMBL/GenBank/DBJ databases.  
DR EMBL: AF488348; AA074057.1; -;  
DR GO: GO:0005576; C:extracellular; IEA.  
DR GO: GO:0008009; P:chemokine activity; IEA.  
DR GO: GO:0006955; P:immune response; IEA.  
DR InterPro: IPR002473; C-X-C/Interlkn.8.  
DR InterPro: IPR001811; Chemokine IL8.  
DR Pfam: PF00048; IL8; 1.  
DR PRINTS: PR00436; INTERLEUKIN8.  
DR SEQUENCE 99 AA; 11730 MW; 972C06336C7F46D6 CRC64;  
  
Query Match 86.4%; Score 507; DB 2; Length 99;  
Best Local Similarity 96.0%; Pred. No. 1.8e-46;  
Matches 95; Conservative 2; Mismatches 2; Indels 0; Gaps 0;  
  
Qy 13 MRLAAALLLLALYARVDGSKCCKSRGPKIRYSDVKLEMKPKYPHCEKRWIIT 72  
Db 1 MRLAAALLLLALYARVDGSKCCKSRGPKIRYSDVKLEMKPKYPHCEKRWIIT 60  
  
Qy 73 KVSRYRGQEHCLHPKQLQSTKRFIKWYNAWNEKRVYEE 111  
Db 61 KVSRYRGQEHCLHPKQLQSTKRFIKWYNAWNEKRVYEE 99  
  
RESULT 5  
ID Q9JHH7 PRELIMINARY; PRT; 99 AA.  
AC Q9JHH7  
DT 01-OCT-2000 (TrEMBLrel. 15, Created)  
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)  
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)  
DE B cell and monocyte-activating chemokine precursor (Mus musculus  
DE brain cDNA, clone MNCB-6413, similar to Mus musculus kidney-expressed  
DE chemokine CXC (Kec) mRNA) (Mus musculus adult male lung cDNA, RIKEN  
DE full-length enriched library, clone:120006123 product:small inducible  
DE cytokine subfamily B (Cys-X-Cys), member 14, full insert sequence)  
DE (Mus musculus 17 days embryo head cDNA, RIKEN full-length enriched  
DE library, clone:1300001319 product:small inducible cytokine subfamily B  
DE (Cys-X-Cys), member 14, full insert sequence) (Mus musculus 10, 11  
DE days embryo whole body cDNA, RIKEN full-length enriched library,  
DE clone:2810410F08 product:small inducible cytokine subfamily B (Cys-X-  
DE Cys), member 14, full insert sequence).  
GN Name=Cxcl14; Synonyms=Bmac;  
OS Mus musculus (Mouse).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
OX NCBI\_TaxID=10090;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=BALB/cbVJ;  
RX MEDLINE=20247020; PubMed=10784614;  
RA Sleeman M.A., Fraser J.K., Murison J.G., Kelly S.L., Prestidge R.L.,  
RA Palmer D.J., Watson J.D., Kumble K.D.;  
RT "B cell- and monocyte-activating chemokine (BMAC), a novel non-ELR  
RT alpha-chemokine.";  
RL Int. Immunol. 12:677-689(2000).  
RN [2]  
RP SEQUENCE FROM N.A.  
RC STRAIN=C57BL;  
RA Osada N., Kusuda J., Tanuma R., Ito A., Hirata M., Sugano S.,  
RA Hashimoto K.;  
RL Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.  
RN [3]  
RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Head, Lung, and Whole body;  
RX MEDLINE=9279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;  
RA Carninci P., Hayashizaki Y.;  
RL "High-efficiency full-length cDNA cloning.";  
RN Meth. Enzymol. 303:19-44(1999).  
[4]  
RP SEQUENCE FROM N.A.  
RC STRAIN=C57BL/6J; TISSUE=Head, Lung, and Whole body;  
RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;  
RA RIKEN FANTOM Consortium;  
RL "Functional annotation of a full-length mouse cDNA collection.";  
RN Nature 409:685-690(2001).  
[5]  
RP SEQUENCE FROM N.A.  
RC STRAIN=C57BL/6J; TISSUE=Head, Lung, and Whole body;  
RA The FANTOM Consortium;  
RL "Analysis of the mouse transcriptome based on functional annotation of  
60,770 full-length cDNAs.";  
RN Nature 420:563-573(2002).  
[6]  
RP SEQUENCE FROM N.A.  
RC STRAIN=C57BL/6J; TISSUE=Head, Lung, and Whole body;  
RX MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;  
RA Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., Itoh M.,  
RA Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;  
RL "Normalization and subtraction of cap-trapper-selected cDNAs to  
prepare full-length cDNA libraries for rapid discovery of new genes.";  
RN Genome Res. 10:1617-1630(2000).  
[7]  
RP SEQUENCE FROM N.A.  
RC STRAIN=C57BL/6J; TISSUE=Head, Lung, and Whole body;  
RX MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;  
RA Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,  
RA Konno H., Akiyama J., Nishi K., Kitsuai T., Tashiro H., Itoh M.,  
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,  
RA Yamamoto R., Matsunoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,  
RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watabiki M.,  
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,  
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;  
RL "RIKEN integrated sequence analysis (RISA) system-384-format  
sequencing pipeline with 384 multicapillary sequencer.";  
RN Genome Res. 10:1757-1771(2000).  
[8]  
RP SEQUENCE FROM N.A.  
RC STRAIN=C57BL/6J; TISSUE=Head, and Lung;  
RA Adachi J., Aizawa K., Akahira S., Akimura T., Arai A., Aono H.,  
RA Arakawa T., Bono H., Carninci P., Fukuda S., Fukunishi Y., Furuno M.,  
RA Hanagaki T., Hara A., Hayatsu N., Hiramoto K., Hiraoka T., Hori F.,  
RA Inotani K., Ishii Y., Itoh M., Izawa M., Kasukawa T., Kato H.,  
RA Kawai J., Kojima Y., Konno H., Kouda M., Koya S., Kurihara C.,  
RA Matsuyama T., Miyazaki A., Nishi K., Nomura K., Numazaki R., Ono M.,  
RA Okazaki Y., Okido T., Owa C., Saito H., Saito R., Sakai C., Sakai K.,  
RA Sano H., Sasaki D., Shibata K., Shibata Y., Shinagawa A., Shiraki T.,  
RA Sogabe Y., Suzuki H., Tagami M., Tagawa A., Takahashi F., Tanaka T.,  
RA Tejima Y., Toya T., Yamamura T., Yasunishi A., Yoshida K., Yoshino M.,  
RA Muramatsu M., Hayashizaki Y.;  
RL Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.  
[9]  
RP SEQUENCE FROM N.A.  
RC STRAIN=C57BL/6J; TISSUE=Whole body;  
RA Adachi J., Aizawa K., Akahira S., Akimura T., Aono H., Arai A.,  
RA Arakawa T., Bono H., Carninci P., Fukuda S., Fukunishi Y., Furuno M.,  
RA Hanagaki T., Hara A., Hayatsu N., Hiramoto K., Hiraoka T., Hori F.,  
RA Inotani K., Ishii Y., Itoh M., Izawa M., Kasukawa T., Kato H.,  
RA Kawai J., Kojima Y., Konno H., Kouda M., Koya S., Kurihara C.,  
RA Matsuyama T., Miyazaki A., Nishi K., Nomura K., Numazaki R., Ono M.,  
RA Okazaki Y., Okido T., Owa C., Saito H., Saito R., Sakai C., Sakai K.,  
RA Sano H., Sasaki D., Shibata K., Shibata Y., Shinagawa A., Shiraki T.,  
RA Sogabe Y., Suzuki H., Tagami M., Tagawa A., Takahashi F., Tanaka T.,  
RA Tejima Y., Toya T., Yamamura T., Yasunishi A., Yoshida K., Yoshino M.,  
RA Muramatsu M., Hayashizaki Y.;  
RL Submitted (APR-2002) to the EMBL/GenBank/DBJ databases.

DR EMBL; AF144754; AAF66694.1; -;  
DR EMBL; AB041614; BAA95097.1; -;  
DR EMBL; AK004615; BAB23411.1; -;  
DR EMBL; AK014351; BAB29292.1; -;  
DR EMBL; AK076112; BAC36192.1; -;  
DR MGD; MGI:1888514; Cxcl14.  
DR GO; GO:0005615; C:extracellular space; TAS.  
DR InterPro; IPR002473; C-X-C/Interlkn\_8.  
DR InterPro; IPR001811; Chemokine\_IL8\_  
DR Pfam; PF00048; IL8; 1.  
DR PRINTS; PR00436; INTERLEUKINS.  
KW SIGNAL.  
FT SIGNAL 1 23 Potential.  
FT CHAIN 24 99 B cell and monocyte-activating  
FT chemokine.  
SQ SEQUENCE 99 AA; 11716 MW; 97352E91FF7F46D6 CRC64;  
Query Match 86.2%; Score 506; DB 2; Length 99;  
Best Local Similarity 94.9%; Pred. No. 2.3e-46;  
Matches 94; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
QY 13 MRLAAALLLLLLLALYARVDGSKCKSRGKPKIRYSDVKLEMKPKYPHCEKRWIIT 72  
DB 1 MRLAAALLLLLLLALCASRYDVGSKCKSRGKPKIRYSDVKLEMKPKYPHCEKRWIIT 60  
QY 73 KSVSRVGRGQEHCHLPKLOSTKRFIKYNAWNEKRRVYEE 111  
DB 61 KSMRVRGQEHCHLPKLOSTKRFIKYNAWNEKRRVYEE 99  
RESULT 6  
SZ14\_MOUSE  
ID \_SZ14\_MOUSE STANDARD; PRT; 99 AA.  
AC Q9WUGS;  
DT 30-MAY-2000 (Rel. 39, Created)  
DT 30-MAY-2000 (Rel. 39, Last sequence update)  
DT 05-JUL-2004 (Rel. 44, Last annotation update)  
DE Small inducible cytokine B14 precursor (CXCL14) (Chemokine BRAK)  
DE (kidney-expressed chemokine CXCL14);  
GN Names:Cxcl14; Synonyms=Kec, Scyb14;  
OS Mus musculus (Mouse).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.  
OX NCBI\_TaxID=10090;  
RN [1]  
RP SEQUENCE FROM N.A.  
RX MEDLINE=99160416; PubMed=10049774; DOI=10.1006/bbrc.1999.0257;  
RA Hromas R., Broxmeyer H.E., Kim C., Nakhatri H., Christopherson K. II,  
RA Azam M., Hou Y.-H.;  
RT "Cloning of BRAK, a novel divergent CXCL chemokine preferentially  
expressed in normal versus malignant cells.";  
RL Biochem. Biophys. Res. Commun. 255:703-706(1999).  
[2]  
RP SEQUENCE FROM N.A.  
RC STRAIN=C3H;  
RA Wang L., Deng L., Raikwar N., Sahota A., Tischfield J.A.;  
RT "Identification of a kidney-expressed chemokine (KEC), a member of the  
CXCL family, that is selectively elevated in apt knockout mice.";  
RL Submitted (OCT-1999) to the EMBL/GenBank/DBJ databases.  
CC -1- SUBCELLULAR LOCATION: Secreted (Potential).  
CC -1- SIMILARITY: Belongs to the interleukin alpha (chemokine CxCL)  
family.  
CC  
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CC or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch).  
CC  
DR EMBL; AF152377; AAD34157.1; -;  
DR EMBL; AF192557; AAF03753.1; -;

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DR MGD; MGI:1888514; Cxcl14.
DR InterPro; IPR002473; C-X-C/Interlkn.8.
DR InterPro; IPR001811; Chemokine IL8.
DR InterPro; IPR001089; CXCL14; CXCL14.
DR Pfam; PF00048; IL8; 1.
DR PRINTS; PR00436; INTERLEUKIN8.
DR PROSITE; PS00471; SMALL_CYTOKINES_CXC; FALSE_NEG.
KW Cytokine; Signal.
FT SIGNAL 1 22 Potential.
FT CHAIN 23 99 Small inducible cytokine B14.
FT DISULFID 25 51 By similarity.
FT DISULFID 27 72 By similarity.
FT CONFLICT 64 64 F -> S (in Ref. 2).
SQ SEQUENCE 99 AA; 11802 MW; 754BD6CDA01CA25D CRC64;

Query Match 83.3%; Score 489; DB 1; Length 99;
Best Local Similarity 91.9%; Pred. No. 1.5e-44;
Matches 91; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy 13 MRLAAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKYPHCEERQWVITTT 72
Db 1 MRLAAALLLLALCVRALDGSCKSRGPKIRYSDVKLEMKPKYPHCEERQWVITTT 60

Qy 73 KSVSRGQEHCLHPKLOSTKRFIKWYNANNEKRVYEE 111
Db 61 KSMFRYRQEHCLHPKLOSTKRFIKWYNANNEKRVYEE 99

RESULT 7
Q91V02 ID Q91V02 PRELIMINARY; PRT; 95 AA.
AC Q91V02;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE MIP2gamma (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Placenta;
RA Schilderink N., Geerts D.;
RL Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF352784; AAK52902.1; -
DR EMBL; AF352785; AAK52903.1; -
DR GO; GO:0005576; C:extracellular; IEA.
DR GO; GO:0008009; F:chemokine activity; IEA.
DR GO; GO:0006955; P:immune response; IEA.
DR Pfam; PF00048; IL8; 1.
FT NON TER 1
SQ SEQUENCE 95 AA; 11202 MW; EA9D0F5A7CA64F1C CRC64;

Query Match 83.1%; Score 488; DB 2; Length 95;
Best Local Similarity 94.7%; Pred. No. 1.8e-44;
Matches 90; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 17 AAALLLLALYARVDGSKCKSRGPKIRYSDVKLEMKPKYPHCEERQWVITTSVS 76
Db 1 AAALLLLALCVRALDGSCKCKSRGPKIRYSDVKLEMKPKYPHCEERQWVITTSMS 60

Qy 77 RYRQEHCLHPKLOSTKRFIKWYNANNEKRVYEE 111
Db 61 RYRQEHCLHPKLOSTKRFIKWYNANNEKRVYEE 95

RESULT 8
Q6EKX6 ID Q6EKX6 PRELIMINARY; PRT; 79 AA.
AC Q6EKX6;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
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DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DB Chemokine (Fragment).
GN Name=CXCL14;
OS Sus scrofa (Pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
OX NCBI_TaxID=9823;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=15242943;
RA Ledger T.N., Pinton P., Bourges D., Roumi P., Salmon H., Oswald I.P.;
RT "Development of a macroarray to specifically analyze immunological
RL gene expression in Swine."; 11:691-698(2004).
DR EMBL; AY308800; AAQ75577.1; -
DR GO; GO:0005576; C:extracellular; IEA.
DR GO; GO:0008009; F:chemokine activity; IEA.
DR GO; GO:0006955; P:immune response; IEA.
DR InterPro; IPR001811; Chemokine_IL8.
FT NON TER 1
SQ SEQUENCE 79 AA; 9651 MW; D1146B8D45F04354 CRC64;

Query Match 73.9%; Score 434; DB 2; Length 79;
Best Local Similarity 97.5%; Pred. No. 9.3e-39;
Matches 77; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 33 DGSKCKSRGPKIRYSDVKLEMKPKYPHCEERQWVITTSVSRGQEHCLHPKLOST 92
Db 1 DGSKCKSRGPKIRYSDVKLEMKPKYPHCEERQWVITTSVSRGQEHCLHPKLOST 60

Qy 93 KRFIKWYNANNEKRVYEE 111
Db 61 KRFIKWYNANNEKRVYEE 79

RESULT 9
Q6GLX8 ID Q6GLX8 PRELIMINARY; PRT; 99 AA.
AC Q6GLX8;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE MGC84138 protein.
GN Name=MGC84138;
OS Xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipidea; Pipidae;
OC Xenopodinae; Xenopus.
OX NCBI_TaxID=8355;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RX MEDLINE=22398257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strauberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haiech F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Udén T.B., Toshiyuki S., Carninci P., Prange C.,
RA Rana S.A., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smallus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002)."
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RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smallos D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RA "Generation and initial analysis of more than 15,000 full-length human
RA and mouse cDNA sequences.",
RA Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RL (2)
RP SEQUENCE FROM N.A.
RP TISSUE=Kidney;
RC Strausberg R.;
RL Submitted (AUG-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC056594; AAH56594.1; -.
DR ZFIN; ZDB-GENE-000619-1; scyba.
DR GO; GO:0005576; C:extracellular; IEA.
DR GO; GO:0008009; F:chemokine activity; IEA.
DR GO; GO:0006955; P:immune response; IEA.
DR InterPro; IPR001811; Chemokine_IL8.
FT NON TER
RP SEQUENCE 150 AA; 17920 MW; 707ECCB934F5FFD CRC64;
RP Query Match 57.4%; Score 337; DB 2; Length 150;
RP Best Local Similarity 51.4%; Pred. No. 4.5e-28;
RP Matches 57; Conservative 26; Mismatches 22; Indels 6; Gaps 1;
RP
Qy 6 RRAPPVSMRLL-----AAALLLLLALYATRVDSKCKSRGPKIRYSDVKLEMKPK 59
Db 39 RRLQEVNKLGMNRCSTAALFLVIAVYSLNTAYKRCRTRKGPRIYIDVQKLEIKPK 98
Qy 60 YPHCEERKVIITKSVSRYRGOEHLKPKLOSTKRFIKWYNWNEKRVYE 110
Db 99 HPYCQERKMFVMTMENVSRFGQCYCLHPLRQSTRLNVLKWFKWKDKHRTFE 149
RESULT 13
Q66L61 PRELIMINARY; PRT; 160 AA.
AC Q66L61
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DE Scyba protein (fragment).
GN Name=scyba;
OS Brachydanio rerio (Zebrafish) (Danio rerio).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC Cyprinidae; Danio.
OX NCBI_TaxID=7955;
RP SEQUENCE FROM N.A.
RP STRAIN=Singapore local strain; TISSUE=Embryo;
RX PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.F., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fehey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smallos D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RA "Generation and initial analysis of more than 15,000 full-length human
RA and mouse cDNA sequences.",
RA Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RL

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RN [2]
RP SEQUENCE FROM N.A.
RP STRAIN=Singapore local strain; TISSUE=Embryo;
RA Director MGC Project;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC078422; AAH78422.1; -.
DR InterPro; IPR001811; Chemokine_IL8.
FT NON TER
RP SEQUENCE 160 AA; 18955 MW; 9A208A7AFB8A1A23 CRC64;
RP Query Match 57.4%; Score 337; DB 2; Length 160;
RP Best Local Similarity 51.4%; Pred. No. 4.8e-28;
RP Matches 57; Conservative 26; Mismatches 22; Indels 6; Gaps 1;
RP
Qy 6 RRAPPVSMRLL-----AAALLLLLALYATRVDSKCKSRGPKIRYSDVKLEMKPK 59
Db 49 RRLQEVNKLGMNRCSTAALFLVIAVYSLNTAYKRCRTRKGPRIYIDVQKLEIKPK 108
Qy 60 YPHCEERKVIITKSVSRYRGOEHLKPKLOSTKRFIKWYNWNEKRVYE 110
Db 109 HPYCQERKMFVMTMENVSRFGQCYCLHPLRQSTRLNVLKWFKWKDKHRTFE 159
RESULT 14
Q9DFG4 PRELIMINARY; PRT; 100 AA.
AC Q9DFG4
DT 01-MAR-2001 (TrEMBLrel. 16, Created)
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE CX-type chemokine.
GN Name=scyba; Synonyms=scyba;
OS Brachydanio rerio (Zebrafish) (Danio rerio).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC Cyprinidae; Danio.
OX NCBI_TaxID=7955;
RP SEQUENCE FROM N.A.
RP MEDLINE=20480374; PubMed=11025222; DOI=10.1016/S0925-4773(00)00408-1;
RA Long Q., Quint E., Lin S., Ekker M.;
RA "The zebrafish scyba gene encodes a novel CX-type chemokine with
RA distinctive expression patterns in the vestibulo-acoustic system
RA during embryogenesis.",
RA Mech. Dev. 97:183-186(2000).
DR EMBL; AF279919; AAG09819.1; -.
DR ZFIN; ZDB-GENE-000619-1; scyba.
DR GO; GO:0005576; C:extracellular; IEA.
DR GO; GO:0008009; F:chemokine activity; IEA.
DR GO; GO:0006955; P:immune response; IEA.
DR InterPro; IPR001811; Chemokine_IL8.
RP SEQUENCE 100 AA; 12016 MW; 274BE255A74F98B5 CRC64;
RP Query Match 57.1%; Score 335; DB 2; Length 100;
RP Best Local Similarity 54.6%; Pred. No. 4.8e-28;
RP Matches 53; Conservative 25; Mismatches 19; Indels 0; Gaps 0;
RP
Qy 14 RLAAALLLLLALYATRVDSKCKSRGPKIRYSDVKLEMKPKYPHCCEKWIITTK 73
Db 3 RCSTAALFLVIAVYSLNTAYKRCRTRKGPRIYIDVQKLEIKPKYCEKMFVTME 62
Qy 74 SVSRYRGOEHLKPKLOSTKRFIKWYNWNEKRVYE 110
Db 63 NVSRFGQCYCLHPLRQSTRLNVLKWFKWKDKHRTFE 99
RESULT 15
Q9DGL8 PRELIMINARY; PRT; 98 AA.
AC Q9DGL8
DT 01-MAR-2001 (TrEMBLrel. 16, Created)
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)

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DR Pfam; PF00048; IL8; 1.
DR PRINTS; PR00436; INTERLEUKIN8.
DR SMART; SM00199; SCY; 1.
DR PROSITE; PS00471; SMALL_CYTOKINES_CXC; 1.
KW Chemotaxis; Cytokine; Direct protein sequencing;
KW Inflammatory response; Signal.
FT SIGNAL 1 32
FT CHAIN 33 100 Macrophage inflammatory protein-2-beta.
FT DISULFID 37 63 By similarity.
FT DISULFID 39 79 By similarity.
SQ SEQUENCE 100 AA; 10989 MW; E8538CEFF3090D2 CRC64;

Query Match 24.4%; Score 143.5; DB 1; Length 100;
Best Local Similarity 35.1%; Pred. No. 1.6e-07;
Matches 34; Conservative 19; Mismatches 31; Indels 13; Gaps 3;

Qy 8 APPVSMELLAAALLLLALLATARVDGS-----KCKSRKGPRIYSDVKLEMPKY 60
Db 2 APP-TRRLNAAALLLLMATSHQPSGTVVARELRQCCKTLPRVDFENIQSLTVP 60

Qy 61 PHCEKRWIIITKSVSRVYRGQEHCLHPKLOSTKRFIK 97
Db 61 PHCTQTEVIATLKD-----GQEVCLNQPAPRLQIIQ 92

RESULT 18
ID Q9EP62 PRELIMINARY; PRT; 101 AA.
AC Q9EP62;
DT 01-MAR-2001 (TrEMBLrel. 16, Created)
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE CINC-2 alpha precursor.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Rattus.
OX NCBI_TaxID=10116;
RN 1
RC SEQUENCE FROM N.A.
RP STRAIN=Wistar; TISSUE=Peritoneal cavity;
RX MEDLINE=9823699; PubMed=9576061; DOI=10.1006/cyto.1997.0271;
RA Shibata F., Konishi K., Nakagawa H.;
RT "Gene structure, cDNA cloning, and expression of rat cytokine-induced
RT neutrophil chemoattractant 2 (GRO/CINC-2) gene.";
RL Cytokine 10:169-174(1998).
DR EMBL; D87927; BAB12280.1; -.
DR HSSP; P10889; IMI2.
DR GO; GO:0005576; C:extracellular; IEA.
DR GO; GO:0008009; F:chemokine activity; IEA.
DR GO; GO:0006955; P:immune response; IEA.
DR InterPro; IPR002473; C-X-C/Interlkn_8.
DR InterPro; IPR001811; Chemokine_IL8.
DR InterPro; IPR001089; CXC_chmkine_sm1.
DR Pfam; PF00048; IL8; 1.
DR PRINTS; PR00436; INTERLEUKIN8.
DR SMART; SM00199; SCY; 1.
DR PROSITE; PS00471; SMALL_CYTOKINES_CXC; 1.
KW SIGNAL.
FT SIGNAL 1 32 Potential.
FT CHAIN 33 101 CINC-2 alpha.
SQ SEQUENCE 101 AA; 11109 MW; D949D5712FE30909 CRC64;

Query Match 24.4%; Score 143.5; DB 2; Length 101;
Best Local Similarity 35.1%; Pred. No. 1.6e-07;
Matches 34; Conservative 19; Mismatches 31; Indels 13; Gaps 3;

Qy 8 APPVSMELLAAALLLLALLATARVDGS-----KCKSRKGPRIYSDVKLEMPKY 60
Db 2 APP-TRRLNAAALLLLMATSHQPSGTVVARELRQCCKTLPRVDFENIQSLTVP 60

Qy 61 PHCEKRWIIITKSVSRVYRGQEHCLHPKLOSTKRFIK 97
Db 61 PHCTQTEVIATLKD-----GQEVCLNQPAPRLQIIQ 92

RESULT 19
ID MIP2_MOUSE STANDARD; PRT; 100 AA.
AC P10889;
DT 01-JUL-1989 (Rel. 11, Created)
DT 01-FEB-1991 (Rel. 17, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Macrophage inflammatory protein 2 precursor (MIP2).
GN Name=Cxcl2; Synonyms=Mip-2, Mip2, Scyb2;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX NCBI_TaxID=10090;
RN 1
RC SEQUENCE FROM N.A.
RP MEDLINE=90354792; PubMed=2201751;
RX Tekamp-Olson P., Gallegos C., Bauer D., McClain J., Sherry B.,
RX Fabre M., van Deventer S., Cerami A.;
RT "Cloning and characterization of cDNAs for murine macrophage
RT inflammatory protein 2 and its human homologues.";
RL J. Exp. Med. 172:911-919(1990).
RN 2
RC SEQUENCE OF 28-59.
RX MEDLINE=89098980; PubMed=2643119;
RX Wolpe S.D., Sherry B., Juers D., Davatellis G., Yurt R.W., Cerami A.;
RT "Identification and characterization of macrophage inflammatory
RT protein 2.";
RL Proc. Natl. Acad. Sci. U.S.A. 86:612-616(1989).
RN 3
RC STRUCTURE BY NMR.
RX MEDLINE=9825555; PubMed=9622482; DOI=10.1021/bi980112r;
RX Shao W., Jerva L.F., West J., Lolis E., Schweitzer B.I.;
RT "Solution structure of murine macrophage inflammatory protein-2.";
RL Biochemistry 37:8303-8313(1998).
CC 1- FUNCTION: Chemotactic for human polymorphonuclear leukocytes but
CC does not induce chemokinesis or an oxidative burst.
CC 1- SUBUNIT: Homotetramer.
CC 1- SUBCELLULAR LOCATION: Secreted.
CC 1- SIMILARITY: Belongs to the intercrine alpha (chemokine Cx)
CC family.
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL Outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.ebi.ac.uk/announcements/
CC or send an email to license@ebi.ac.uk).
DR EMBL; X53798; CAA37807.1; -.
DR PIR; JH0200; JH0200.
DR PDB; 1MI2; NMR; A/B=28-100.
DR MGD; MGI:1340094; Cxcl2.
DR InterPro; IPR002473; C-X-C/Interlkn_8.
DR InterPro; IPR001811; Chemokine_IL8.
DR InterPro; IPR001089; CXC_chmkine_sm1.
DR Pfam; PF00048; IL8; 1.
DR PRINTS; PR00436; INTERLEUKIN8.
DR PRINTS; SM00199; SCY; 1.
DR SMART; SM00437; SMALL_CYTOKINES_CXC.
DR PROSITE; PS00471; SMALL_CYTOKINES_CXC; 1.
KW 3D-structure; Chemotaxis; Cytokine; Direct protein sequencing;
KW Inflammatory response; Signal.
FT SIGNAL 1 27 Macrophage inflammatory protein 2.
FT CHAIN 28 100
FT DISULFID 36 62
FT DISULFID 38 78
FT STRAND 42 42
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FT TURN 45 46
FT HELIX 47 49
FT STRAND 52 56
FT TURN 60 62
FT STRAND 66 71
FT TURN 72 74
FT STRAND 75 79
FT TURN 85 86
FT HELIX 87 94
FT TURN 96 97
SQ SEQUENCE 100 AA; 10621 MW; B9EFOA3218EE92B5 CRC64;

Query Match 23.5%; Score 138; DB 1; Length 100;
Best Local Similarity 33.3%; Pred. No. 6.3e-07;
Matches 32; Conservative 21; Mismatches 31; Indels 12; Gaps 3;

QY 8 APPVSMRLAAALLLLLLLALYATRVDS-----KCKSRKGPRIYSDVKLEMPKYP 61
DB 2 APP-TCRLLSAALVLLLLLNATNHQATGAVVASLRCQCLNTPRVDFKNIQSLSVTPPGP 60

QY 62 HCEEKVLIITKSVSRVYRGQEHCLHPKQSTKRFK 97
DB 61 HCAQTEVIATLKG-----GQKVLDPAPLVQKIIQ 91

RESULT 20
Q6W5C0 PRELIMINARY; PRT; 100 AA.
AC Q6W5C0;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Dendritic cell inflammatory protein-1 precursor.
GN Names: Dc1pi;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
SEQUENCE FROM N.A.
Query Match 22.4%; Score 131.5; DB 2; Length 107;
Best Local Similarity 34.4%; Pred. No. 3.3e-06;
Matches 33; Conservative 16; Mismatches 36; Indels 11; Gaps 2;

QY 8 APPVSMRLAAALLLLLLLALYATRVDS-----KCKSRKGPRIYSDVKLEMPKYP 61
DB 8 ASPCAFRLRAALLLLLLVAAGRTAGAPVGGELRCQCLTVQGIHLKNIQDLKVTSPGP 67

QY 62 HCEEKVLIITKSVSRVYRGQEHCLHPKQSTKRFK 97
DB 68 HCDQTEVIATLKN-----GOEVCINPSPAPMVKKIIE 98

RESULT 22
GRO_CRIGR STANDARD; PRT; 101 AA.
AC P09340;
DT 01-MAR-1989 (Rel. 10, Created)
DT 01-MAR-1989 (Rel. 10, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Growth regulated alpha protein precursor (CXCL1).
GN Names: CXCL1; Synonyms: GRO, SCYB1;
OS Cricetus griseus (Chinese hamster).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Cricetinae;
OC Cricetus.
OX NCBI_TaxID=10029;
RN [1]
SEQUENCE FROM N.A.
Query Match 23.0%; Score 135; DB 2; Length 100;
Best Local Similarity 36.8%; Pred. No. 1.3e-06;
Matches 32; Conservative 16; Mismatches 27; Indels 12; Gaps 3;

QY 8 APPVSMRLAAALLLLLLLALYATRVDS-----KCKSRKGPRIYSDVKLEMPKYP 61
DB 2 APP-TCRLLSAALVLLLLLNATNHQATGAVVASLRCQCLNTPRVDFKNIQSLSVTPPGP 60
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QY 62 HCEEKVLIITKSVSRVYRGQEHCLHPK 88
DB 61 HCTQTEVIATLKD-----GOEVCINPQ 82

RESULT 21
Q6PUD4 PRELIMINARY; PRT; 107 AA.
AC Q6PUD4;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Chemokine (C-X-C motif) ligand 2.
GN Name: CXCL2;
OS Sus scrofa (Pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
OX NCBI_TaxID=9823;
RN [1]
SEQUENCE FROM N.A.
Query Match 22.4%; Score 131.5; DB 2; Length 107;
Best Local Similarity 34.4%; Pred. No. 3.3e-06;
Matches 33; Conservative 16; Mismatches 36; Indels 11; Gaps 2;

QY 8 APPVSMRLAAALLLLLLLALYATRVDS-----KCKSRKGPRIYSDVKLEMPKYP 61
DB 8 ASPCAFRLRAALLLLLLVAAGRTAGAPVGGELRCQCLTVQGIHLKNIQDLKVTSPGP 67

QY 62 HCEEKVLIITKSVSRVYRGQEHCLHPKQSTKRFK 97
DB 68 HCDQTEVIATLKN-----GOEVCINPSPAPMVKKIIE 98

RESULT 22
GRO_CRIGR STANDARD; PRT; 101 AA.
AC P09340;
DT 01-MAR-1989 (Rel. 10, Created)
DT 01-MAR-1989 (Rel. 10, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Growth regulated alpha protein precursor (CXCL1).
GN Names: CXCL1; Synonyms: GRO, SCYB1;
OS Cricetus griseus (Chinese hamster).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Cricetinae;
OC Cricetus.
OX NCBI_TaxID=10029;
RN [1]
SEQUENCE FROM N.A.
Query Match 23.0%; Score 135; DB 2; Length 100;
Best Local Similarity 36.8%; Pred. No. 1.3e-06;
Matches 32; Conservative 16; Mismatches 27; Indels 12; Gaps 3;

QY 8 APPVSMRLAAALLLLLLLALYATRVDS-----KCKSRKGPRIYSDVKLEMPKYP 61
DB 2 APP-TCRLLSAALVLLLLLNATNHQATGAVVASLRCQCLNTPRVDFKNIQSLSVTPPGP 60
```

```
CC -!- SIMILARITY: Belongs to the interleukin alpha (chemokine Cxk)
CC family.
CC -----
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CC -----
DR EMBL: J03560; AAA36985.1; -.
DR PIR: B28414; B28414.
DR HSP: P19875; 1QNK.
DR InterPro: IPR002473; C-X-C/Interlkn_8.
DR InterPro: IPR001811; Chemokine IL8.
DR InterPro: IPR001089; CXC_chmkine_sm1.
DR Pfam: PF00048; IL8; 1.
DR PRINTS; PR00436; INTERLEUKIN8.
DR PRINTS; PR00437; SMALLCYTCKXC.
DR SMART; SM00199; SCY; 1.
DR PROSITE; PS00471; SMALL CYTOKINES CXC; 1.
KW Cytokine; Growth factor; Inflammatory response; Signal.
FT SIGNAL 1 28 Potential.
FT CHAIN 29 101 Growth regulated alpha protein.
FT DISULFID 37 63 By similarity.
FT DISULFID 39 79 By similarity.
SQ SEQUENCE 101 AA; 10893 MW; 666FB7E9CC512019 CRC64;

Query Match 22.3%; Score 131; DB 1; Length 101;
Best Local Similarity 31.6%; Pred. No. 3.6e-06;
Matches 30; Conservative 21; Mismatches 32; Indels 12; Gaps 2;

QY 10 PVSMLLAALLALLLLALYARV-----DGSCKCKSRGPKIRYSDVKLEMKPKYP 62
DB | : | | | | | | | | | | | : | : | : | : | : | : | |
QY 63 CEERKVIITTKSVSRVYRGQEHCLHPKLQSTKRPIK 97
DB | : | | | | | | | | | | | : | : | : | : | : | : | |
QY 63 CTQTEVIATLKN-----GQEVCLNPAAPMVVKIIE 98
DB | : | | | | | | | | | | | : | : | : | : | : | : | |

RESULT 23
Q6PUJ1 PRELIMINARY; PRT; 107 AA.
AC Q6PUJ1
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE CXCL2.
OS Sus scrofa (pig).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
OX NCBI_TaxID=9823;
RN [1]
RP SEQUENCE FROM N.A.
RA Kim J.G., Vallet J.L., Rohrer G.A., Christenson R.K.;
RA Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL: AY57905; AA590943.1; -.
DR GO; GO:000576; C:extracellular; IEA.
DR GO; GO:0008009; F:chemokine activity; IEA.
DR GO; GO:0006955; P:immune response; IEA.
DR InterPro: IPR002473; C-X-C/Interlkn_8.
DR InterPro: IPR001811; Chemokine IL8.
DR InterPro: IPR001089; CXC_chmkine_sm1.
DR Pfam: PF00048; IL8; 1.
DR PRINTS; PR00436; INTERLEUKIN8.
DR PRINTS; PR00437; SMALLCYTCKXC.
DR SMART; SM00199; SCY; 1.
DR PROSITE; PS00471; SMALL CYTOKINES CXC; 1.
SQ SEQUENCE 107 AA; 11227 MW; C6C44351E8C652CB CRC64;

Query Match 22.2%; Score 130.5; DB 2; Length 107;

Best Local Similarity 34.4%; Pred. No. 4.3e-06;
Matches 33; Conservative 16; Mismatches 36; Indels 11; Gaps 2;

QY 8 APPVSMELLAALLALLLLALYARVDSG-----KCKSRGPKIRYSDVKLEMKPKYP 61
DB | : | | | | | | | | | | | : | : | : | : | : | : | |
QY 8 ASPCAPFLRALALLLLVAAGRTAGAPVGGELRCQCLQTVQGIHLKNIQDLKVTSPGP 67
DB | : | | | | | | | | | | | : | : | : | : | : | : | |
QY 62 HCEERKVIITTKSVSRVYRGQEHCLHPKLQSTKRPIK 97
DB | : | | | | | | | | | | | : | : | : | : | : | : | |
QY 68 HCDQTEVIATLKN-----GQEVCLNPAAPMVVKIIE 98
DB | : | | | | | | | | | | | : | : | : | : | : | : | |

RESULT 24
M12A HUMAN STANDARD; PRT; 107 AA.
AC P19875; Q9UPB8;
DT 01-FEB-1991 (Rel. 17, Created)
DT 01-FEB-1991 (Rel. 17, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Macrophage inflammatory protein-2-alpha precursor (MIP2-alpha) (CXCL2)
DE (Growth regulated protein beta) (Gro-beta) [Contains: GRO-beta(5-73)
DE (GRO-beta-T) (SB-251353) (Hematopoietic synergistic factor) (HSP)].
GN Name=CXCL2; Synonyms=GRO2, GROB, MIP2A, SCYB2;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Histiocytic lymphoma;
RX MEDLINE=90354792; PubMed=2201751;
RA Tekamp-Olson P., Gallegos C., Bauer D., McClain J., Sherry B.,
RA Fabre M., van Deventer S., Cerami A.;
RT "Cloning and characterization of cDNAs for murine macrophage
RT inflammatory protein 2 and its human homologues.";
RL J. Exp. Med. 172:911-919(1990).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=90377259; PubMed=2078213;
RA Iida N., Grotendorst G.R.;
RT "Cloning and sequencing of a new gro transcript from activated human
RT monocytes: expression in leukocytes and wound tissue.";
RL Mol. Cell. Biol. 10:5596-5599(1990).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=91017578; PubMed=2217207;
RA Haakill S., Peace A., Morris J., Sporn S.A., Anisowicz A., Lee S.W.,
RA Smith T., Martin G., Ralph P., Sager R.;
RT "Identification of three related human GRO genes encoding cytokine
RT functions.";
RL Proc. Natl. Acad. Sci. U.S.A. 87:7732-7736(1990).
RN [4]
RP SEQUENCE FROM N.A.
RC TISSUE=Eye;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Schuler G.D., Collins F.S., Wagner K.H., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A., Rubin G.M., Hong L.,
RA Skapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.B.,
RA Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McSwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Heltan E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalhus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
```

Query Match 22.2%; Score 130.5; DB 2; Length 107;

RT and mouse cDNA sequences";  
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
 RN [5]  
 RP SEQUENCE OF 35-107 FROM N.A.  
 RA Jang J.S., Kim B.E.;  
 RL Submitted (JAN-1998) to the EMBL/GenBank/DBJ databases.  
 RN [6]  
 RP SEQUENCE OF 39-56, IDENTIFICATION OF GRO-BETA(5-73) BY MASS  
 RP SPECTROMETRY, N-TERMINAL PROCESSING, AND FUNCTION.  
 RX PubMed=10725737;  
 RA King A.G., Johanson K., Frey C.L., DeMarsh P.L., White J.R.,  
 RA McDevitt P., McNully D., Balcarek J., Jonak Z.L., Bhatnagar P.K.,  
 RA Pelus L.M.;  
 RT Identification of unique truncated KC/GRO beta chemokines with potent  
 RT hematopoietic and anti-infective activities.";  
 RL J. Immunol. 164:3774-3782(2000).  
 RN [7]  
 RP STRUCTURE BY NMR OF 39-107.  
 RX MEDLINE=20069929; PubMed=10600366; DOI=10.1006/jmbi.1999.3333;  
 RA Qian Y.Q., Johanson K.O., McDevitt P.;  
 RT "Nuclear magnetic resonance solution structure of truncated human  
 RT Grobeta [5-73] and its structural comparison with CXCL chemokine family  
 RT members GROalpha and IL-8.";  
 RL J. Mol. Biol. 294:1065-1072(1999).  
 CC -I- FUNCTION: Produced by activated monocytes and neutrophils and  
 CC expressed at sites of inflammation. Hematopoietic chemokine,  
 CC which, in vitro, suppresses hematopoietic progenitor cell  
 CC proliferation. GRO-beta(5-73) shows a highly enhanced  
 CC hematopoietic activity.  
 CC -I- SUBCELLULAR LOCATION: Secreted.  
 CC -I- PTM: The N-terminal processed form GRO-beta(5-73) is produced by  
 CC proteolytic cleavage after secretion from bone marrow stromal  
 CC cells.  
 CC -I- PHARMACEUTICAL: GRO-beta(5-73) is available under the name  
 CC Garmocestim as immunomodulator. It is used prior to hematopoietic  
 CC transplantation for peripheral blood stem cell mobilization and  
 CC reduction of incidence, duration, and/or severity of chemotherapy  
 CC induced cytopenias.  
 CC -I- SIMILARITY: Belongs to the intercrine alpha (chemokine Cxcl)  
 CC family.  
 CC  
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 CC or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).  
 CC  
 DR ENBL; X53799; CAA37808.1; -;  
 DR ENBL; M36820; AAA63183.1; -;  
 DR ENBL; M57731; AAA63182.1; -;  
 DR ENBL; BC015753; AAH15753.1; -;  
 DR ENBL; AF043340; AAC03540.1; -;  
 DR PIR; JH0281; JH0281.  
 DR PDB; 1QNK; NMR; A/B=-;  
 DR Genew; HGNC:4603; CXCL2.  
 DR H-InvDB; HIX0004287; -;  
 DR MIM; 139110; -;  
 DR GO; GO:0005615; C:extracellular space; TAS.  
 DR GO; GO:0005625; C:soluble fraction; TAS.  
 DR GO; GO:0008009; F:chemokine activity; TAS.  
 DR GO; GO:0008935; P:chemotaxis; TAS.  
 DR GO; GO:0006954; P:inflammatory response; TAS.  
 DR InterPro; IPR002473; C-X-C/Interln\_8.  
 DR InterPro; IPR001811; Chemokine\_il8.  
 DR InterPro; IPR001089; CXCL2.  
 DR Pfam; PF00048; IL8\_1.  
 DR PRINTS; PR00436; INTERLEUKIN8.  
 DR SMART; SM00199; SCY; 1.  
 DR PROSITE; PS00471; SMALL CYTOKINES CXC; 1.  
 DR 3D-structure; Chemotaxis; Cytokine; Direct protein sequencing;  
 KW

KW Inflammatory response; Signal.  
 FT SIGNAL 1 34  
 FT CHAIN 35 107  
 FT CHAIN 39 107  
 FT DISULFID 43 69  
 FT DISULFID 45 85  
 FT STRAND 49 49  
 FT STRAND 54 56  
 FT STRAND 57 63  
 FT STRAND 73 78  
 FT STRAND 79 80  
 FT STRAND 83 86  
 FT STRAND 88 89  
 FT TURN 93 95  
 FT TURN 98 102  
 SQ SEQUENCE 107 AA; 11389 MW; 740F277E928571BA CRC64;  
 Query Match 21.9%; Score 128.5; DB 1; Length 107;  
 Best Local Similarity 33.3%; Pred. No. 7e-06;  
 Matches 32; Conservative 18; Mismatches 35; Indels 11; Gaps 2;  
 QY 8 APPVSMRLAAALLLLLLLALYARVDGS-----KCKSRKPKIRYSDVKLEMKPKYP 61  
 DB 8 AAPSNPRLRLVALLLLLLLVAASRAAGAPLATELRQCCLQTQGIHLKNIQSVKVSFGP 67  
 QY 62 HCEEKMWITTSVSRVGOEHLHPKLOSTKEFIK 97  
 DB 68 HCAQTEVIATLRN-----GOKACINPASPMPVKKIIE 98  
 RESULT 25  
 Q28724 PRELIMINARY; PRT; 108 AA.  
 ID Q28724  
 AC Q28724;  
 DT 01-NOV-1996 (TRENBLrel. 01, Created)  
 DT 01-AUG-1999 (TRENBLrel. 11, Last sequence update)  
 DT 01-JUN-2003 (TRENBLrel. 24, Last annotation update)  
 DE GRO.  
 OS Oryctolagus cuniculus (Rabbit).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.  
 OX NCBI\_TaxID=9986;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=New Zealand White;  
 RX MEDLINE=99152612; PubMed=10028286;  
 RA Modi W.S., Yoshimura T.;  
 RT "Isolation of novel GRO genes and a phylogenetic analysis of the CXC  
 RT chemokine subfamily in mammals.";  
 RL Mol. Biol. Evol. 16:180-193(1999).  
 DR ENBL; U95808; AAB93924.1; -;  
 DR PIR; S17507; S17507.  
 DR HSP; P19875; 1QNK.  
 DR GO; GO:0005576; C:extracellular; IEA.  
 DR GO; GO:0008009; F:chemokine activity; IEA.  
 DR GO; GO:0006955; P:immune response; IEA.  
 DR InterPro; IPR002473; C-X-C/Interln\_8.  
 DR InterPro; IPR001811; Chemokine\_il8.  
 DR InterPro; IPR001089; CXCL2.  
 DR Pfam; PF00048; IL8\_1.  
 DR PRINTS; PR00436; INTERLEUKIN8.  
 DR PRINTS; PR00437; SMALLCYTKCXC.  
 DR SMART; SM00199; SCY; 1.  
 DR PROSITE; PS00471; SMALL CYTOKINES CXC; 1.  
 SQ SEQUENCE 108 AA; 11261 MW; 9C278041FC7A5BAD CRC64;  
 Query Match 21.9%; Score 128.5; DB 2; Length 108;  
 Best Local Similarity 33.3%; Pred. No. 7.1e-06;  
 Matches 32; Conservative 15; Mismatches 38; Indels 11; Gaps 2;  
 QY 8 APPVSMRLAAALLLLLLLALYARVDGS-----KCKSRKPKIRYSDVKLEMKPKYP 61  
 DB 9 AAPSGPRLRLVALLLLLLLVAASRAAGAPLATELRQCCLQTQGIHLKNIQSVKVSFGP 68